



1920.

ANNUAL REPORT

ON THE

HEALTH

OF

WORTHING

AND

EAST PRESTON RURAL DISTRICT

AND

Medical Inspection of School Children, Worthing.

BY

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M.D. (Lond.), M.R.C.P., D.P.H.

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BOROUGH METEOROLOGIST.

WORTHING:

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BOROUGH OF WORTHING.

Public Health Committee, 1920.

Alderman MRS. ELLEN CHAPMAN, J.P., *Mayor.*

Alderman W. T. FROST, M.P.S., *Chairman.*

Councillor H. C. B. BOWLES.	Mrs. GALLOWAY, (representing C. C. Society.)
„ C. B. COOK.	Miss POTTER (representing National Council of Women.)
„ Mrs. GREENFIELD.	Dr. F. HINDS & Dr. H. M. MILBANK-SMITH (representing local Medical Practitioners in connection with M. & C. Welfare.)
„ A. MERCIER	
„ W. G. PATCHING.	
„ G. W. RUNDALL.	
„ Mrs. SMEDLEY, M.B., B.S.	

Town Clerk : J. KENNEDY ALLERTON.

Borough Surveyor : FRANK ROBERTS, A.M.I.C.E.

Staff of Health Department.

Clerk : C. A. BUXTON.

Assistant Sanitary Inspector and Registrar of Meteorological Observatory :
J. W. KING, A.R.S.I.

Health Visitor : Mrs. TUPMAN, A.R.S.I.

Matron of the Borough Isolation Hospital, Swandean : Miss R. A. HALL.

Chief Sanitary Inspector : CHARLES T. GARDNER, A.R.S.I.

Contagious Diseases Animals Act.

Veterinary Inspector : J. R. ROBINS, M.R.C.V.S.

Inspector : EX-SUPERINTENDENT W. BRIDGER.

Medical Officer of Health :

R. HEYWOOD WILSHAW, M.D. (Lond.), M.R.C.P., D.P.H.

Education Committee.

Chairman : Ald. W. WALTER. *Vice-Chairman :* Ald. H. T. DUFFIELD.

THE MAYOR (Alderman Mrs. ELLEN CHAPMAN, J.P.)

Alderman W. T. FROST, M.P.S.	Councillor G. W. RUNDALL.
„ J. FARQUHARSON	„ Mrs. SMEDLEY, M.B., B.S.
„ WHYTE, M.A., J.P.	„ W. E. WENBAN SMITH.
Councillor G. B. BENNETT, B.A.	Rev. E. J. CUNNINGHAM, M.A.
„ H. R. CARTER.	Rev. C. J. HOLLIS, M.A.
„ Mrs. GREENFIELD.	Mr. G. BELL.
„ Mrs. MAYSON.	Mr. F. J. NORMAN.
„ A. NICHOLS.	Mr. J. T. TRELEAVEN.
„ Mrs. PARKER.	Miss K. COAST.
„ W. G. PATCHING.	Mrs. Wright.

Clerk : J. KENNEDY ALLERTON (Town Clerk.)

School Nurse : Miss E. F. BAILEY, A.R.S.I., C.M.B.

Assistant School Nurse : Miss E. M. BELCHEM.

Ophthalmic Surgeon : C. H. BRYANT, M.D., F.R.C.S.

Dental Surgeon : W. ADDERLEY, L.D.S.

School Attendance Officers : C. ROBINSON and J. WALLIS.

School Clinic Clerk : J. HOLDSTOCK.

School Medical Officer :

R. HEYWOOD WILSHAW, M.D. (Lond.), M.R.C.P., D.P.H.

PREFACE.

February, 1921

*To the Mayor, Aldermen and Councillors of Worthing, and the
Chairman and Members of the East Preston Rural District
Council.*

MRS. MAYOR, LADIES AND GENTLEMEN,

In accordance with the Memorandum of the Ministry of Health, dated February, 1921, I have the honour of submitting to you my Thirteenth Annual Report on the "Natural and Social Conditions" of the district, together with the "Sanitary circumstances" of the Borough of Worthing and the Rural District of East Preston.

The Infantile Mortality rate is the lowest on record, and is exceptionally good, viz., 39 per 1,000 births

The Sanitary circumstances of the District :—This part of the Report includes a statement prepared by the Inspector of Nuisances.

Food :—Under this heading will be found the annual return made by the County Food and Drugs Inspector, Mr. F. Knott.

Maternity and Child Welfare :—Great interest has been taken in this department of the work, especially at the Centre.

The *Education Report* shows that much good work has been done especially in the operative work on tonsils and adenoids, and X-rays for ringworm, and also in the eye and dental departments.

The Children's Care Society has again rendered valuable assistance to us in connection with the Notification of Births Act.

The progress made under Sections 15 and 17 of the Housing, Town Planning, Etc., Acts, is given under *Housing*.

I again have to thank the Sanitary and Education Committees for their continued interest and support, also my colleagues, the Sanitary Staff, the Matron and Nurses at the Hospital, the Education Officers and Teachers.

I am, Mrs. Mayor, Ladies and Gentlemen,

Your obedient servant,

R. HEYWOOD WILSHAW.

VITAL STATISTICS, 1920.

Area of Municipal Borough, including foreshore ... acres	3,012
Excluding foreshore acres	2,637
Rateable Value to General District Rate	£209,167
Assessable Value to General District Rate...	£192,472
Estimated Population, Registrar General...	31,555
Population at 1911 Census	30,305
Persons per acre in the Borough	12·0
Number of Houses	7,986
Average number of persons per House	4·1
Net Death Rate	13·8
Corrected Death Rate	11·4
Average Death Rate for previous five years	14·9
Zymotic Death Rate	0·19
Average Zymotic Death Rate for previous five years ...	0·31
Birth Rate	18·5
Average Birth Rate for previous five years	13·4
Infant Death Rate under one year, per 1,000 births ...	39
Infant Death Rate average for previous five years, per 1,000 births	65

NATURAL AND SOCIAL CONDITIONS OF THE DISTRICT.

POPULATION.

The estimated population of Worthing at the 1911 Census was 30,305 and the Registrar General estimates the population at the middle of 1920 as 31,555.

PHYSICAL FEATURES AND GENERAL CHARACTER OF THE DISTRICT.

WORTHING is situated on the Coast of Sussex, ten miles west of Brighton, and 55 miles south of London, in lat. $50^{\circ} 49'$ N. and long. $0^{\circ} 22'$ W.

SITE, SOIL, Etc.

The town is of a level nature, situated at the foot of the South Downs. These hills form a good protection from the North. The soil is of loam.

The town is essentially residential and therefore contains many detached and semi-detached houses and good thoroughfares well planted with trees.

RECREATION GROUNDS AND OPEN SPACES.

In addition to the long stretch of Foreshore (375 acres) on the south of the town, there are the following open spaces, comprising about $35\frac{1}{2}$ acres:—Broadwater Green ($8\frac{1}{2}$ acres) in the Broadwater Ward, Homefield Park (16 acres) in the Selden Ward, Victoria Recreation Ground (8 acres) in the Heene Ward, and the Steyne Gardens, Brighton Road (3 acres) in the Selden Ward. There is an open space in front of the Public Baths in the Heene Ward, which is used for tennis courts, also the privately owned Sports Ground in the West Tarring Ward.

There is a large number of Boarding Schools for Boys and Girls.

The chief industry is fruit growing, carried on in glass-houses, of which there are about 35 miles.

At the time of the passing of the Public Health Act, 1875, Worthing was an Urban Sanitary District with a

population of 8,096, the area then being 584 acres, and for parochial purposes was within the Parish of Broadwater; an extension of the district was made in 1876, when 200 acres were included from Broadwater; in 1881 the acreage was 979; a further extension was made in 1890 (West Worthing and the Rural part of Heene) the added area being 426 acres, making a total of 1,405 acres; the town was then incorporated and divided into five Wards, the population being 16,606 at the 1891 census. Further extension was made in 1902 and the urban portions of the parishes of Broadwater and West Tarring were added at this time, 656 acres from Broadwater and 566 from West Tarring, making a total area of 2,637 acres, exclusive of the Foreshore. The town was then divided into seven Wards, viz.: Selden, Central, Park, Victoria, Heene, Broadwater and West Tarring.

POOR LAW RELIEF.

The following particulars were obtained from Mr. T. A. Boyden, the Relieving Officer, as to the extent of Poor Law Relief for the Borough:—

	£	s.	d.
Half year ending March, 1920 .	1360	7	4½
„ „ „ September, 1920 ...	1446	13	10

The extent to which Hospital gratuitous medical relief is utilised will be seen in the following extract from the Report, with statement of Accounts, of the Worthing Hospital, for the year ended 31st July, 1920:—

Number of patients during the year:

	In-patients.	Out-patients.
From Worthing Parish ...	227	1719
From other parishes ...	122	286
	<hr/> 349	<hr/> 2005
Cured or relieved ...	293	1690
Died ...	35	—
Remaining on books ...	21	315
	<hr/> 349	<hr/> 2005

The amount expended by the Corporation on milk, etc., will be found under the heading of food.

VITAL STATISTICS.

TABLE I.

Borough of Worthing.

Vital Statistics of Whole District during 1920 and previous Years.

Year.	Population estimated to Middle of each Year.	Births.			Total Deaths Registered in the District		Transferable Deaths		Net Deaths belonging to the District			
		Un- corrected Number.	Net.		Number	Rate	of Non- residents registered in the District	of Resi- dents not registered in the District	Under 1 Year of Age		At all Ages	
			Number.	Rate.					Number	Rate per 1,000 Net Births	Number	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13
1914	33,000	474	483	14·6	401	12·2	25	52	29	60	428	13·0
1915	32,000	447	457	14·2	483	15·1	35	59	28	61	507	15·8
1916	31,000	454	468	15·1	404	13·0	38	52	31	66	418	13·5
1917	30,000	351	359	12·0	391	13·0	30	54	23	64	415	13·8
1918	31,000	444	419	13·5	527	17·0	74	58	32	76	511	16·5
1919	31,000	—	376	12·1	459	14·8	40	59	21	56	478	15·1
1920	31,555	560	583	18·5	430	13·6	50	54	23	39	434	13·8

Area of District in acres (land
and inland water) ...

2,637

Total Population at all ages ...
Total Families or Separate Occupiers...

30,305 } At Census
7,064 } 1911.

TABLE II.
Borough of Worthing.

Cases of Infectious Disease notified during the Year 1920.

NOTIFIABLE DISEASE.	Number of Cases Notified.							Total Cases Notified in each Locality.							
	At all Ages	At Ages—Years						Selden.	Central.	Park.	Victoria.	Heene.	Broadwater	W. Tarring.	Total Cases Removed to Hospital.
		Un-der 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65									65 and up-ward
Small-pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Group)...	45	6	30	4	4	4	1	8	7	6	3	13	7	1	35
Erysipelas ...	4	...	...	2	1	1	1	2	1	...	...	...	1	...	3
Scarlet fever ...	79	...	70	2	3	3	...	22	11	1	13	17	7	8	59
Typhus fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric fever ...	6	2	2	1	...	...	...	...	...	...	3	3	...	...	1
Relapsing fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal fever ...	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...
Cerebro-spinal Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poliomyelitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum	5	...	...	...	...	...	...	1	2	...	...	...	1	1	...
Pulmonary Tuberculosis	33	...	1	4	17	10	1	6	4	1	5	12	3	2	...
Other forms of "	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...
Paratyphoid ...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...
Totals ...	175	5	12	104	13	27	12	39	25	8	25	47	19	12	98

Isolation Hospital—"Swandean," Durrington.

TABLE III.

Borough of Worthing.

Causes of and Ages at Death during the Year 1920.

Causes of Death.			Net Deaths at the subjoined ages of "Residents" whether occurring within or without the District.								Total Deaths whether of "Residents" or "Non-Residents" in Institutions in the District.	
			All Ages.	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years		65 and upwards
1			2	3	4	5	6	7	8	9	10	11
All Causes	{	Certified ..	433	23	3	3	5	11	33	95	260	90
		Uncertified ...	1	...	...	...	1	...	...	...	...	...
Enteric Fever	...	..	1	...	...	...	...	...	...	...	1	...
Small-Pox	...	..	...	...	...	...	...	...	...	...	..	...
Measles	...	..	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	..	...	...	...	...	...	...	...	...	...	...
Whooping Cough...	...	..	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup	..	..	1	...	...	...	1	...	...	...	...	...
Influenza	...	..	1	...	...	...	...	...	...	1	...	...
Erysipelas	...	..	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis)	...	..	23	...	...	1	...	6	9	6	1	5
Tuberculous Meningitis ..	..	..	2	...	...	...	1	...	...	1	...	1
Other Tuberculous Diseases	...	..	4	...	...	...	...	1	...	1	2	2
Cancer, Malignant Disease	...	..	50	...	...	...	...	1	4	20	25	17
Rheumatic Fever	...	..	1	...	...	...	...	...	1	...	...	...
Meningitis	...	..	2	...	...	1	1	...	...	...	...	...
Organic Heart Disease	..	..	61	...	...	...	1	...	6	16	38	6
Bronchitis	...	..	31	1	...	...	...	...	...	1	29	...
Pneumonia (all forms)	..	..	15	1	...	...	...	...	2	5	7	3
Other diseases of Respiratory Organs	...	..	9	...	1	...	...	...	...	4	4	...
Diarrhoea and Enteritis	..	..	4	3	1	...	...	...	...	...	...	...
Appendicitis and Typhlitis	...	..	4	...	...	...	1	1	1	1	...	7
Cirrhosis of Liver	...	..	2	...	...	...	...	...	...	1	1	...
Alcoholism	...	..	...	...	...	...	...	...	...	...	...	3
Nephritis and Bright's Disease	...	..	9	...	...	...	...	1	1	3	4	...
Puerperal Fever	...	..	...	...	...	...	...	...	...	...	...	...
Other accidents and diseases of Pregnancy and Parturition	..	..	...	...	...	...	...	...	...	...	...	...
Congenital Debility and Malformation, including Premature Birth	..	..	7	7	...	...	...	...	...	...	...	1
Violent Deaths, excluding Suicide	...	..	11	1	1	...	...	...	1	5	3	5
Suicide	...	..	1	...	...	...	...	...	...	1	...	...
Other defined diseases	..	..	194	10	...	1	...	1	8	29	145	40
Diseases ill-defined or unknown	...	..	1	...	...	...	1	...	...	...	...	...
Totals	...	..	434	23	3	3	6	11	33	95	260	90

TABLE IV.

Net Deaths from stated causes at various Ages under 1 Year of Age.

Causes of Death.			Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 months	3 months and under 6 months	6 months and under 9 months	9 months and under 12 months	Total Deaths under 1 year
All Causes.	} Certified ...	Uncertified...	11	1	...	...	12	6	2	...	3	23
		
{		Small Pox ...	...	...	...	...	...	...	...	...	...	...
		Chicken Pox	...	...	...	...	...	...	...	...	...	...
{		Measles ...	...	...	...	...	...	...	...	...	...	...
		Scarlet Fever	...	...	...	...	...	...	...	...	...	...
{		Whooping Cough	...	...	...	...	...	...	...	...	...	...
		Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...
{		Erysipelas	...	...	...	...	...	...	...	...	...	...
		Tuberculous Meningitis..	...	...	...	...	...	...	...	...	...	...
{		Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...
		Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...
{		Meningitis (not Tuberculous)	...	...	...	...	...	...	...	...	...	...
		Convulsions	...	...	...	...	...	...	...	...	1	1
{		Laryngitis ...	...	...	...	...	...	...	...	...	...	...
		Bronchitis ...	...	...	...	...	...	1	...	...	...	1
{		Pneumonia (all forms)	...	...	...	...	...	1	...	...	...	1
		Diarrhœa ...	...	...	...	...	...	...	...	...	...	...
{		Enteritis	...	...	...	...	...	2	...	...	1	3
		Gastritis	...	...	...	...	...	...	1	...	...	1
{		Syphilis	...	...	...	...	...	...	...	...	...	...
		Rickets	...	...	...	...	...	...	...	...	...	...
{		Suffocation, overlying	1	...	...	...	1	...	...	...	...	1
		Injury at Birth	...	...	...	...	...	...	...	...	...	...
{		Atelectasis ...	2	...	...	...	2	...	...	...	...	2
		Congenital Malformations	...	...	...	...	...	...	...	...	...	...
{		Premature Birth ...	5	...	...	...	5	1	...	...	...	6
		Atrophy, Debility and Marasmus	1	...	...	...	1	1	1	...	...	3
{		Other Causes	2	1	...	...	3	...	...	...	1	4
		Accidental Fall	...	...	...	...	...	...	...	...	...	...
Totals ...			11	1	...	...	12	6	2	...	3	23

Net Births } legitimate 553

in the year of } illegitimate 30

Net Deaths } legitimate infants 19

in the year of } illegitimate infants 4

INFANTILE MORTALITY.

The deaths of infants under one year of age were 23 ; which is equivalent to a mortality of 39 per 1,000 births.

Table IV. shows that of these 12 died under four weeks of age.

The chief causes of infantile mortality are given in the following Table, also in Table IV.

Return of deaths from stated causes in years 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919 and 1920 under one year : —

Causes of Death.	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	Total 10 yrs.
Measles	4	...	1	...	2	...	...	...	...	...	7
Diphtheria (including Membranous Croup) ...	...	...	...	...	1	...	...	...	...	...	1
Croup... ..	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough ...	...	1	1	2	...	1	2	...	1	...	8
Diarrhœa, all forms ...	15	...	1	...	1	...	2	...	...	...	19
Enteritis, Gastro Enteritis (not Tuberculous) ...	8	...	2	2	...	6	2	2	...	3	25
Gastritis, Gastro-Intestinal Catarrh ... ..	...	2	2	...	...	...	1	...	...	1	6
Premature Birth	11	3	9	10	7	8	1	12	5	6	72
Congenital Defects ...	3	...	...	3	...	...	...	1	...	...	7
Diseases and Accidents of Parturition ... ..	...	1	...	...	...	...	...	...	...	...	1
Injury at Birth ... ..	...	...	...	...	...	...	...	...	...	...	...
Accident ... ..	...	...	...	...	...	...	...	...	1	...	1
Respiratory Organs ...	...	...	...	...	...	...	...	...	...	...	...
Atrophy Debility Marasmus	8	1	4	3	9	6	1	8	7	3	50
Tuberculous Meningitis ...	1	...	...	...	1	...	...	...	...	...	2
Tabes Mesenterica... ..	...	1	...	...	...	...	2	...	1	...	4
Other Tuberculous Diseases	...	...	...	...	1	2	1	1	...	...	5
Cancer, Malignant Diseases	...	...	...	...	...	...	...	...	...	...	...
Syphilis ... ..	...	...	...	...	...	...	...	...	...	...	...
Rickets ... ..	...	...	...	...	...	...	...	...	...	...	...
Meningitis (not Tubercu- lous) ... ..	...	1	1	...	...	...	1	1	...	...	4
Convulsions... ..	...	2	2	...	1	...	...	1	...	1	7
Bronchitis ... ..	...	3	...	3	...	3	1	2	3	1	16
Laryngitis ... ..	...	...	...	...	...	...	...	...	...	...	...
Pneumonia	4	...	2	5	3	...	6	2	1	1	24
Suffocation (overlying)	...	2	2	...	...	...	1	1	...	1	7
Phthisis ... ..	...	...	...	...	...	...	...	...	...	...	...
Pleurisy ... ..	...	...	...	...	...	...	...	1	...	...	1
Other causes	2	3	7	1	2	5	2	...	2	6	30
Total	56	20	34	29	28	31	23	32	21	23	297
Rate per 1,000 Births ...	105	41	67	60	61	66	64	76	56	39	64
Total Number of Births ...	532	486	504	483	457	468	359	419	376	583	4665

Birth-rate, Death-rate, and Analysis of Mortality during the Year 1920.

	BIRTH RATE PER 1000 TOTAL POPULA- TION.	ANNUAL DEATH-RATE PER 1000 POPULATION.										RATE PER 1000 BIRTHS.	
		All Causes.	Enteric Fever.	Small- pox.	Measles	Scarlet Fever.	Whoop- ing Cough.	Diph- theria.	Influ- enza	Violence	Diarrhoea and Enteritis (under 2 years)	Total Deaths under One Year	
—													
England and Wales ...	25.4	12.4	0.01	0.00	0.19	0.04	0.11	0.15	0.28	0.48	8.3	80	
96 Great Towns ...	26.2	12.5	0.01	0.00	0.22	0.04	0.14	0.16	0.31	0.43	10.4	85	
148 Smaller Towns ...	24.9	11.3	0.02	0.00	0.19	0.03	0.10	0.14	0.27	0.38	7.8	80	
London ...	26.5	12.4	0.01	0.00	0.22	0.05	0.17	0.22	0.30	0.47	9.5	75	
WORTHING ...	18.5	11.4	0.03	—	—	—	—	0.03	0.03	0.38	6.9	39	

BIRTHS.

The total number of births registered during 1920 was 583, (281 males and 302 females.)

This is equivalent to a birth-rate of 18·5 per 1,000 inhabitants. The average birth-rate of the 148 smaller English towns was 24·9 per 1,000. This is the highest birth-rate recorded for Worthing since 1910.

Of the births, 30 were illegitimate children, forming 5 per cent. of total births. The average number of illegitimates born during the last five years is 28·4.

DEATHS.

The number of deaths registered during 1920 belonging to Worthing was 434. This is equivalent to a death-rate of 13·8 per 1,000 population. When this is corrected by the Standardizing Factor, ·8302, as supplied by the Registrar General, it is equivalent to a local death-rate of 11·4.

ZYMOTIC MORTALITY.

There were 6 deaths from the seven principal zymotic diseases.

Small-pox...	...	...	...	...	—
Measles ...	...	...	...	...	—
Scarlet Fever ...	...	...	...	...	—
Whooping Cough	...	...	...	...	—
Diphtheria ...	...	...	...	...	1
Enteric Fever ...	...	...	...	...	1
Diarrhœa ...	...	...	...	...	4
					—
					6

The Zymotic Death Rate is thus 0·19.

SANITARY CIRCUMSTANCES OF THE DISTRICT.

WATER SUPPLY.

The Water undertaking belongs to the Corporation. The source is from deep wells in the chalk at the foot of the Downs.

It is an ample supply and, though rather hard, of exceptional purity, as shown by the chemical and bacteriological analyses.

In the early part of 1918 a further supply was obtained, particulars of which have been supplied by the Borough Engineer, as follows:—

A 12in. steel tube was driven in the chalk 13ft. from the bottom of the pilot well and continued to the ground level. A bore hole was then driven through this tube to a depth of 371ft. below O.D., the ground level at this point being 82ft. above O.D.

From this source a greatly increased supply has been obtained, connection between the borehole and the headings being made by a 12in. junction with valve worked from the top of the well.

The Council has recently purchased 150 acres of land in the immediate vicinity of the Water Works for the protection of the supply.

WATER ANALYSIS.

(1) CHEMICAL.

		Parts per 100,000	Grains per gallon
Total solids (dried at 120° C.)	...	39.5	21.35
Combined chlorine	...	2.5	1.75
Equivalent to NaCl	...	4.13	2.89
Nitric nitrogen	...	0.6	0.43
Nitrous nitrogen	...	Nil	Nil
Ammoniacal nitrogen	...	0.0003	0.0002
Albumenoid nitrogen	...	0.0003	0.0002
Oxygen absorbed in 4 hours at 27° C.	...	0.008	0.006
Lead or copper	...	Nil	Nil
Temporary hardness (equivalent to CaCO ₃)	...	20.0	14.0
Permanent hardness	...	3.8	2.7
Total hardness	...	23.8	15.7

(2) BACTERIOLOGICAL (cultural and microscopical).

Average number of organisms producing visible colonies on gelatine plates incubated at 20—22° C. for 3 days ... 69 per c.c.

Average number of organisms producing visible colonies on agar plates, incubated at 37.5° C. for 2 days ... 24 per c.c.

B. Coli	...	...	...	...	Not found in 100 c.c.
Streptococci	...	...	..	...	Not found in 30 c.c.
B. Enteriditis Sporogenes	...	...	...	...	Not found in 100 c.c.

The results show this water to be of a high degree of organic and bacterial purity.

RIVERS AND STREAMS.

There are only two streams in the district worth mentioning, viz., the River Ditch and Teville Stream.

The River Ditch is the main stream taking the natural drainage of the district to the sea; this drains the surface immediately south of the Downs. The Teville Stream joins the River Ditch on its course to the sea, and takes the natural drainage from the surface on the north side of the ridge running parallel with the Downs.

Both streams are under the control of the Worthing Corporation as Commissioners under the 1826 George IV Act.

DRAINAGE AND SEWERAGE.

This is a water-carriage system by gravitation to the sewage works situated at the eastern end of the Borough, where the sewage is screened and lifted into storage tanks from which the sewage discharges by gravitation into the sea twice each day, from one hour after high water.

In 1915 additional pumping was provided at a cost of £7,389. The scheme was prepared and carried out by the Borough Engineer.

The sewers are well laid, well flushed and efficiently ventilated by air shafts.

The system of house drains is modern and intercepting chambers are provided. Great attention is paid to the efficient working of the whole system.

CLOSET ACCOMMODATION.

The type of apparatus mostly in use is the short hopper flush rim pan for most houses, pedestal washdown basins being used in the best class of house. Each class is supplied by syphon cisterns giving a flush of three gallons each.

SCAVENGING.

Movable dustbins are used at each house, and the refuse collected once a week from ordinary dwellings and bi-weekly from the hotels and large boarding establishments.

An electric motor vehicle has been purchased to take the place of horse-drawn vehicles.

Most of the refuse is burnt at the Corporation Refuse Destructor, at the Sewage Pumping Station, East Worthing, and the steam generated by the burning of the refuse is used for working the sewage pumps, which were formerly worked by gas engines.

Excepting a very small number of houses with privies and cesspools in the outlying districts the whole of the houses are connected to the sewerage system of the Borough.

30th ANNUAL REPORT OF THE SANITARY INSPECTOR TO THE PUBLIC HEALTH COMMITTEE.

PUBLIC HEALTH DEPARTMENT,
GLOUCESTER LODGE,

CHAPEL ROAD, WORTHING

C. T. GARDNER, A.R.S.I.,
Sanitary Inspector.

April, 1921.

The usual systematic inspection of the Registered Common Lodging House, five Slaughterhouses, thirty-two Bakehouses, seven Dairy Farms, thirty-four Dairies and Milkshops was carried out.

The Slaughterhouses were found to be generally well kept. One complaint was received as to alleged nuisance and breaches of the Bye-laws at Broadwater Street Slaughterhouse. This was inquired into and certain works were carried out to improve the lighting and ventilation and to enable slaughtering to be carried on with the minimum of annoyance to persons living near.

There are seven registered Cowkeepers within the Borough; their sheds have been kept in satisfactory condition; they are situated as follows:—Selden Ward 1, Broadwater Ward 2, Heene Ward 1, West Tarring Ward 3.

MOSQUITOES.

There were three complaints received and dealt with. The worst infested places were regularly treated and every facility was given by the nurserymen and private owners for treating their tanks.

It is satisfactory to record that the steps taken in the past, and the efforts still being directed to the reduction of these pests, show excellent results.

COMPLAINTS.

Thirty-five complaints of a miscellaneous nature were received, inquired into, and dealt with, viz.: Rubbish deposited on allotments, animals improperly kept, passages dirty and drains choked, etc.

DESTRUCTION OF RATS ORDER, 1918.

Co-operation with the Rats Destruction Organizer for the West Sussex County Council resulted in a considerable number of rats being destroyed.

An agreement was made with the County Council for the destruction of rats by poisoning, on the land owned by the Corporation at their depot in Meadow Road. The poison method has not proved as successful as anticipated. The former method of using the fire hose and dogs secured the destruction of a much larger number of rats.

UNDERGROUND SLEEPING ROOMS.

Two underground sleeping rooms were closed, after representation to the owners, under the Bye-laws, viz., No. 11, Liverpool Terrace and No. 5, Bedford Row.

RAG FLOCK ACT, 1911,

AND

RAG FLOCK REGULATION, 1912.

Enquiries have been made under this Act, and its Regulations, at the local upholsterers' premises and of persons engaged in making up bedding, and it was found that Rag Flock is not used in the manufacture of bedding in the Borough.

OFFENSIVE TRADES.

There are five persons carrying on the trade of Marine Store Dealer and five Fish Fryers. These businesses have been carried on satisfactorily during the year.

INCREASE OF RENT & MORTGAGE INTEREST (RESTRICTIONS) ACT, 1920.

The Council appointed me as the Officer to report under the above Act. During the year 24 houses were examined under Section 2 (4) of this Act and certified reports supplied to the applicants, on payment of the prescribed fee.

HOUSE TO HOUSE INSPECTION.

The Table on page 21 shows the Sanitary Inspections and House to House Inspections carried out during the year.

DISINFECTION.

This is carried out after notified cases of infectious disease, including consumption, and in other cases after payment of prescribed fees.

The fees received by the Council for disinfection after non-notifiable diseases amounted to £24 8s. 6d.

The total cost of disinfectants, appliances, etc., was £131 13s. 10d., including £29 5s. 10d. used for destruction of mosquitoes.

SANITARY SURVEYS.

Under the Council's regulations there were 15 houses examined and reported on during the year.

The fees received by the Council for this work amounted to £24 13s. 0d.

SECTION 41, PUBLIC HEALTH ACTS.

One complaint was made under Section 41 of the Public Health Act, 1875. The premises dealt with and action taken were as follows:—

Premises.	Result of Action taken.	No. of houses affected.
No. 66, Marine Parade and Nos. 1 and 2, Augusta Place.	The common drain was intercepted in the passage of No. 2, Augusta Place and reconstructed in heavy cast-iron pipes, with additional means of access by an inspection chamber of No. 1. The apportionment was disputed, but after considerable correspondence and a meeting of the owners concerned, an agreement to pay was arrived at.	3
July 20th, 1920. Marine Parade, Nos. 90, 91, 92, 93 and 94.	This complaint related to the combined drain taking the drainage of these premises into the sewer in West Street. The work was outstanding at the close of 1920.	5

Borough of Worthing.—Health Department.

ANNUAL CHART to Sanitary Inspector's Report on Houses and Premises, including House to House Inspection, from January to December, 1920.

SITUATION OF PREMISES.	No. examined			Defective fittings				Drainage defects.				Other Insanitary conditions.							Infectious Disease.					
	Complete Streets.	No. of premises.	Defects found at	W.C's and Flushing apparatus	Soil and R.W. P's.	Sink and Waste Pipes, also Channels.	Dust receptacles	DRAINS.				Premises dirty.	Yard and Scullery surfaces bad.	Roof and Shooting defective.	Overcrowding found.	Animals improperly kept.	Offensive accumulation.	Miscellaneous defects.	Inquiries made.	Premises disinfected.	Premises cleansed.	Drains flushed.	Bedding, &c., disin- fected or destroyed.	
								Choked.	Tested.	Defective.	Unventilated.													No means of access.
WARD.																								
Selden	3	197	37	10	2	7	20	3	2	1	—	—	12	6	4	—	1	1	5	36	41	36	36	36
Central	7	204	55	12	3	5	29	6	12	7	1	1	14	4	11	1	—	11	19	27	19	19	19	
Park	2	105	30	5	1	—	18	3	—	1	—	—	9	6	5	—	—	11	19	22	19	18	19	
Victoria	1	97	31	5	—	2	10	3	—	2	—	—	12	4	8	—	—	12	20	26	20	20	20	
Heene	1	106	33	10	—	—	8	10	4	1	—	—	7	3	—	—	2	2	20	27	20	17	20	
Broadwater	5	299	87	15	1	7	38	2	—	1	—	—	11	6	8	—	1	4	10	17	21	17	17	
West Tarring	2	116	30	4	—	1	14	2	—	1	—	—	4	3	5	—	—	4	8	11	8	8	8	
Totals	21	1124	303	61	7	22	137	29	18	14	1	1	69	32	41	1	4	5	55	139	175	139	135	139

SCHOOLS.

The sanitary condition of all schools is good. Town water is laid on to them all.

The scholars are examined by the School Medical Officer, who is also the Medical Officer of Health.

Where Infectious Disease occurs in connection with a school, action is taken in accordance with the Memorandum on Closure and Exclusion from School, 1909.

The following schools had to be closed for Infectious Disease :—

FOR WHOOPING COUGH—

Broadwater, Infants'	...	...	...	April 1—April 12.
Heene, Infants'	...	...	...	Jan. 26—Feb. 23.
Christ Church, Infants'	...	...	...	Jan. 26—Feb. 23.
St. Joseph's, Infants'	...	...	...	Feb. 2—Feb. 23.

FOR MEASLES—

St. George's, Infants'	...	...	...	June 21—July 12.
St. Andrew's, Infants'	...	...	{	July 5—commence-
				ment of Summer
				vacation.

THE SHOPS ACT, 1912.

The Shops Act came into operation on May 1st, 1912, and is administered by the Public Health Committee.

The Register, which is kept by the Inspector, Mr. J. W. King, at the Public Health Office, Gloucester Lodge, contains 730 shops, which are classified according to trades.

The Act has proved of great benefit to the Shop Assistants, and the various Orders which the Town Council has made have reduced the complex working of the Act and made it more welcome to Shopkeepers, who have, on the whole, honestly conformed to their obligations.

312 shops were visited during the year with a view of ascertaining if the provisions of the Act were being carried out, and the following minor breaches of the Act were found :—

At 43 shops the occupiers had failed to keep affixed the prescribed form of Notice as to Assistants' Weekly Half

Holiday. These occupiers were cautioned and it was found on a subsequent visit that the Notices had been provided and fixed on the premises.

The seating accommodation at 3 shops which was insufficient has been made good.

A census of the Retail Shop Assistants in the Borough showed a total of 924 and as far as could be ascertained all receive their weekly half holiday.

Trade or Business	No. of Shops.	Trade or Business.	No. of Shops.
Antique and Art Dealers ...	6	Hairdressers and Perfumers	20
Art Needlework	2	Hardware, Oil and Iron-	
Auctioneers and Estate Agents	5	mongers	20
Bakers and Confectioners ..	68	Hosiers, Outfitters and	
Basket and Brush Dealers ...	2	Clothiers	16
Booksellers and Stationers ...	41	House Furnishers	3
Boot Dealers and Repairers ...	40	Jewellers and Watchmakers	15
Builders, Plumbers and		Marine Store Dealers ...	2
Decorators	8	Milliners	14
Butchers	30	Motor Dealers	5
Chemists	14	Musical Instrument Dealers	3
China Dealers	8	Monumental Masons ...	4
Coal Merchants	14	Naturalists	1
Corn and Seed Merchants ...	5	Opticians	1
Costumiers	12	Pawnbrokers	1
Cycle Dealers	16	Picture Dealers	3
Dairy Shops	18	Photographers	7
Domestic Machine Dealers	3	Public Houses and Hotels ...	57
Drapers	32	Restaurants	16
Dyers and Cleaners	3	Rope and Twine Merchants	1
Fish and Poultry Dealers ...	14	Saddlery & Leather Goods	6
Fruiterers, Florists and Green-		Tailors	14
grocers	43	Toys and Fancy Goods ...	11
Furniture Dealers and Brokers	13	Tobacconists	27
Gas Fitters and Electricians	6	Umbrella Dealers	2
General Stores	54	Undertakers (Artificial	
Grocers & Provision Merchants	51	Flowers)	1
		Upholsterers	4
		Wardrobe Dealers	6

The total number of shops as per above table is 769, of which number 39 are duplicated in the Register owing to different trades being carried on in the same shop, leaving a total of 730 separate shops.

Food.

MILK SUPPLY.

The normal quantity of milk consumed in the Borough is about 1,500 gallons per day, four-fifths of which is brought in from farms within a ten mile radius of the town.

The cowsheds within the Borough are, on the whole, well constructed, and the milk is produced under wholesome conditions.

The Dairies, Cowsheds and Milkshops Order of 1885 and Article II of the Dairies, Cowsheds and Milkshops Order of 1899 are in force and the conditions well observed.

The majority of the milkshops are of first class character, with modern plant for cleansing purposes.

The Public Health Committee arranges from time to time for an examination of all the dairy cows within the Borough by their Veterinary Inspector, in order to eliminate tuberculous milk.

MILK AND CREAM REGULATIONS, 1912 AND 1917.

The West Sussex County Council administers these regulations, and I append the report of Mr. F. Knott, the Inspector under the Sale of Food and Drugs Acts, &c.—

Description	Number of Samples Analysed	Result of Analysis	
		Genuine	Otherwise
New Milk	43	36	*7
Separated Milk ...	2	2	—
Butter	1	1	—

*Did not comply with the Board of Agriculture (presumptive) Standard of 3 per cent fat—8·5 per cent non-fatty solid.

Particulars relating to other food are given in the Sanitary Inspector's detailed report.

There is no public abattoir. The slaughterhouses are regularly visited at the usual times of slaughtering.

MILK (MOTHERS AND CHILDREN) ORDER, 1918.

Milk and food have been supplied to nursing and expectant mothers, and children under five years of age, under the Maternity and Child Welfare Scheme, in accordance with the scale adopted for necessitous cases. Details are given in Maternity and Child Welfare Section.

FOOD INSPECTION.

The Butcher, Fish and Provision Shops, and the Railway Stations were frequently visited and the result of inspections is shown in the following table, giving the amount of diseased or unsound food surrendered and destroyed:—

TUBERCULOUS—

10 carcasses of Beef.
1 Hind Quarter of Beef.

FROZEN—

742 lbs. Beef.
38 lbs. Kidneys.
112 Rabbits.

UNSOUND—

55 lbs. of Bacon.
1 Sheep.
2 Lambs.
1 cwt. Herrings.
 $1\frac{1}{2}$ lbs. Butter.
31 boxes Codling.
1 barrel Mackerel.
122 lbs. Mutton.
4 boxes Haddock.
5 gallons Prawns.
19 tins Condensed Milk.
2 tins Sardines.
21 boxes Bloaters.
3 lbs. Sausages.
1 tin Tomatoes.

Since the decontrol of meat by the Government, on July 3rd, 1920, the quality of the beasts dealt with at the local slaughterhouses has greatly improved.

FACTORY AND WORKSHOP ACTS, 1901.

Annual Report for the year 1920 for the Borough of Worthing on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Workplaces, and Homework.

1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Number of	
	Inspections	Written Notices.
Factories (including Factory Laundries)	15	6
Workshops (including Workshop Laundries)	108	10
Workplaces (other than Outworkers' premises included in Part 3 of this Report)	29	—
Total	152	16

2.—DEFECTS FOUND.

Particulars.	Number of Defects		
	Found.	Remedied	Referred to H.M. Inspector
Want of Cleanliness ...	6	6	
Want of Ventilation ...			
Overcrowding ...			
Want of Drainage of Floors ...	1	1	
Other Nuisances ...	2	2	
Sanitary Accommodation :			
Insufficient ...			
Unsuitable or defective ...	5	5	
Not separate for sexes ...	1	1	
Totals ...	15	15	

3.—HOMEWORK.

Nature of Work.	Outworkers' Lists, Section 107.						
	Lists received from Employers.				Sending once in the Year.		
	Sending twice in the Year.		Lists.		Outworkers.		Notices served on Occupiers as to keeping or sending Lists.
	Lists.	Contractors.	Outworkers.	Workmen.	Contractors.	Workmen.	
Wearing Apparel:—							
(1) Making, &c.	—	—	—	—	—	9	15
(2) Cleaning and Washing	—	—	—	—	—	—	—
Lace, Lace Curtains and Nets	—	—	—	—	—	—	—
Furniture and Upholstery	—	—	—	—	—	3	4
Toy Manufacture	—	—	—	—	—	1	—
Total	—	—	—	—	—	13	19

4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at end of the year	Number	Class	Number
Bakehouses	32	Matters notified to H.M. Inspector of Factories :— Failure to affix Abstract of the Factory and Workshop Acts (s. 133) Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Acts (s.5):— Notified by H.M. Inspector Reports (of action taken) sent to H.M. Inspector	2
Dressmakers, Milliners and Tailors	46		
Laundries	19		
Printing Works	8		
Miscellaneous	117		
Total number of Workshops on Register	222	Underground Bakehouses (s. 101) :— Certificates granted during the year... In use at the end of the year ..	1 1 — —

5.—OTHER MATTERS.

NOTICES SERVED, 1920.

STATUTORY.

Infectious Disease Prevention Act	...	—
Public Health Act, Section 41	...	4
Section 36	...	—
Section 46, Cleansing and Whitewashing	...	—
Housing, Town Planning, &c., Act	...	2
Preliminary, or Informal Notices	...	214

The result of serving the Notices was that the work was carried out with the least possible friction, to the satisfaction of the Town Council.

In rare cases, where trouble is anticipated, a Statutory Notice is served, with the desired result.

At the end of 1920 there were no works of urgent sanitary importance outstanding.

PREVALENCE OF AND CONTROL OVER INFECTIOUS DISEASE.

INCIDENCE OF DISEASE.

The number of notifications during 1920 was 175 :—

Scarlet Fever	...	79
Diphtheria	...	45
Enteric Fever	...	6
Puerperal Fever	...	1
Erysipelas	...	4
Ophthalmia Neonatorum	...	5
Cerebro-Spinal Meningitis	...	—
Poliomyelitis	...	—
Paratyphoid	...	1
Tuberculosis	...	34

SCARLET FEVER.

Of the 79 cases notified, 59 were removed to Swandean Isolation Hospital, and all recovered.

The greatest number of cases occurred during October, November and December, and nearly all the persons affected were under 15 years; four were between 1 and 5 years, and 70 between 5 and 15 years.

There were no "return" cases.

DIPHTHERIA.

Forty-five cases were notified, 35 of which were treated at Swandean. The greatest number of cases occurred during January, February and March, and the majority of the persons affected were under 15 years, six were between 1 and 5 years, and 30 were between 5 and 15 years.

There were no "return" cases.

Of the 45 cases one was fatal from Cardiac paralysis.

Diphtheria Anti-Toxin Order of the Local Government Board

Under this Order a supply of Anti-Toxin has been kept at the Public Health Offices for distribution to Medical Practitioners for use in the case of the poorer inhabitants of the District.

Twenty-one packets of Anti-Toxin were supplied to Local Medical Practitioners during the year.

PUERPERAL FEVER.

One case was notified during the year.

ENTERIC FEVER.

Seven cases were notified, one of which was paratyphoid.

OPHTHALMIA NEONATORUM.

There were five cases notified and all recovered.

CEREBRO-SPINAL MENINGITIS.

There were no cases notified during the year.

ACUTE POLIOMYELITIS.

There were no cases notified during the year.

SMALL POX.

There were no cases notified during the year.

MEASLES.

The Public Health (Measles and German Measles) Regulations were rescinded as from December 31st, 1919.

INFLUENZA.

Two cases were notified during the year.

TUBERCULOSIS.

Notification has been faithfully carried out by local medical men. There were 34 such notifications, 33 pulmonary and 1 other form.

BACTERIOLOGICAL.

Swabs for Diphtheria	...	...	76
Blood tests	...	...	3
Sputum tests	...	...	38

The following table shows the notification of the notifiable diseases for the previous 10 years and 1920.

Year.	Scarlet Fever.	Diphtheria.	Enteric.	Other Infectious Diseases.	Total
1910	122	62	—	9	193
1911	94	50	8	6	158
1912	65	36	1	11	113
1913	46	30	7	10	93
1914	45	176	4	15	240
1915	65	57	1	17	140
1916	39	55	9	173	276
1917	23	33	2	459	517
1918	21	51	4	373	449
1919	53	53	7	102	215
1920	79	45	6	45	175

VACCINATION.

The number of exemptions from vaccination for Worthing for 1920 was 364, and the number of births registered 639.

Showing the number of DEATHS from the seven principal Zymotic Diseases in the
Ten Years 1910—1919, and in 1920.

	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	Average 10 years	1920
Estimated Population	29630	30500	31330	32160	33000	32000	27766	27662	28780	30345	30327	31555
Small Pox	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria	3	5	1	2	9	7	...	2	4	2	3.5	1
Enteric Fever	...	1	1	1	2	...	1	...	1	1	0.8	1
Measles	...	16	...	4	...	6	...	...	2	...	2.8	...
Whooping Cough	4	1	3	3	3	...	1	3	3	1	2.2	...
Diarrhoea	1	27	...	2	4	1	3	4	3	...	4.5	4
Total	8	50	5	12	18	14	5	9	13	4	13.8	6
Zymotic death rate per 1,000 living	0.27	1.64	0.16	0.37	0.54	0.44	0.18	0.32	0.45	0.13	0.45	0.19

NOTIFIABLE DISEASES.

Diseases notified in each month during 1920 :—

Month	Scarlet Fever	Diphtheria	Enteric Fever	Puerperal Fever	Erysipelas	Small Pox	C.S. Meningitis	Ophthalmia Neonatorum	Poliomyelitis	Tuberculosis (All forms)	Paratyphoid	Total
January	5	7	...	...	1	...	...	...	...	1	...	14
February	6	13	1	...	2	...	...	...	...	2	...	24
March	2	6	2	...	...	...	...	...	...	1	...	11
April	2	2	1	...	...	...	...	1	...	2	...	8
May	1	1	...	...	...	...	...	1	...	10	...	13
June	5	2	1	...	...	...	...	1	...	6	...	15
July	4	4	...	...	1	...	...	...	...	4	...	13
August	4	3	...	...	...	...	...	...	...	3	...	10
September	6	1	1	...	...	...	...	...	...	...	1	9
October	12	4	...	...	...	...	...	1	...	1	...	18
November	22	1	...	...	...	...	...	...	...	1	...	24
December	10	1	...	1	...	...	...	1	...	3	...	16
The 12 months Totals	79	45	6	1	4	...	...	5	...	34	1	175
Total number treated in Hospital	35	59	1	...	3	...	...	...	...	...	...	98
Total deaths registered	...	1	1	...	...	...	...	...	...	29	...	31

CONSUMPTION AND CANCER.

The following table shows the number of deaths from Tuberculosis and Cancer for the past ten years :—

Year.	Phthisis.	Other Tubercular Diseases.	All Forms of Cancer.
1911	24	13	45
1912	23	14	37
1913	25	2	39
1914	25	9	42
1915	47	9	49
1916	50	8	58
1917	60	3	63
1918	67	6	73
1919	35	—	49
1920	23	4	50

NOTIFICATION.

The Infectious Diseases (Notification) Act, 1889, came into force August 3rd, 1890.

The Infectious Diseases (Prevention) Act, 1890, came into operation on July 4th, 1891.

The Public Health Tuberculosis Regulations, 1912, came into force on February 1st, 1913.

The Public Health (Cerebro-Spinal Fever and Acute Poliomyelitis) Regulations came into force on September 1st, 1912.

The Public Health (Tuberculosis in Hospitals) Regulations, 1911, came into force on May 1st, 1911, and further Regulations (Pulmonary Tuberculosis), dated November 15th, 1911, requiring the General Notification of all cases from January 1st, 1912.

The Public Health (Tuberculosis) Regulations, 1912, which came into force on February 1st, 1913, require notification of all forms of Tuberculosis.

The Worthing Authorities added Cerebro-Spinal Fever and Acute Poliomyelitis to the list of Notifiable Diseases under the Infectious Diseases (Notification) Act, 1889, March 25th, 1912, which was followed on 1st September, 1912, by a general order of the L.G.B. making these two diseases notifiable throughout the country.

The Council decided on September 2nd, 1913 (with the consent of the Local Government Board) to make the notification of Ophthalmia Neonatorum compulsory, to take effect as from November 1st, since this date the Local Government Board have made a general Order throughout the country with regard to the notification of this disease, which came into force on 1st April, 1914.

The Public Health (Pneumonia, Malaria, Dysentery, etc.) Regulations, 1919, came into force on March 1st, 1919.

The Public Health (Acute Encephalitis Lethargica and Acute Polio-Encephalitis) Regulations, 1918, came into force on January 1st, 1919.

INFECTIOUS DISEASES HOSPITAL, SWANDEAN.

There were 98 patients admitted during the year.

The following are the cases with the longest stay in Hospital :—

Scarlet Fever.	Diphtheria.
One case was in 100 days.	One case was in 90 days.

The beds available are as follows :—

14 for Scarlet Fever.
14 for Diphtheria.
4 for Observation.

Arrangements are made with Brighton for isolating possible Small-Pox patients.

A Tuberculosis Pavilion for 12 patients (6 male and 6 female) has been completed at a cost of £4,924 and new bedrooms for nurses and staff added to the Administration block at a cost of £1,484 and were opened on Jan. 1st, 1921.

The annexed table shows the number of patients received at Swandean during the past 10 years.

Cases of Infectious Disease treated in the Borough Infectious Diseases Hospital, Swandean, during the last 10 years, 1910-1919, and for 1920.

	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	Total for the 10 years 1910-1919	1920	Case Mortality for each disease of cases treated in Hospital during the 10 years 1910-1919	1920	Case Mortality of cases treated at their own homes during the 10 years 1910-1919*	1920
	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920					
Scarlet Fever	71	58	51	32	37	41	24	21	11	42	388	59	...	...	...	...
Smallpox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·1%	...
Diphtheria	54	41	29	27	136	48	42	31	39	48	495	35	...	2·9%	23·5%	20%
Enteric Fever	...	5	1	5	3	1	5	1	2	1	24	1	...	...	...	...
Erysipelas	...	...	...	1	...	...	...	...	...	...	1	3	...	...	...	...
Puerperal Fever	...	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...
Cerebro-S. Meningitis	...	...	...	...	...	...	...	...	...	...	4	...	...	...	33 $\frac{1}{3}$	...
Poliomyelitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	125	104	81	65	176	92	72	54	52	91	912	98				
Deaths occurred amongst the above cases as follows:—																
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Smallpox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria	2	5	1	1	8	4	...	3	4	3	31	1	6·3%	2·9%	3·1%	...
Enteric Fever	...	1	1	1	1	...	...	...	...	...	4	...	16·7%	...	23·5%	20%
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebro-S. Meningitis	...	...	...	...	...	...	1	...	...	...	1	...	25%	...	...	...
Poliomyelitis	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...	...
Totals	2	6	2	2	9	4	1	3	4	3	36	1				

*Obtained by deducting the notifications and deaths of cases treated in the Borough Hospital, Swandean, from the total notifications and deaths of cases of infectious disease in whole Borough.

The above table does not include cases received at Swandean from outside the Borough of Worthing.

SWANDEAN EXPENDITURE.

For the Year ended March 31st, 1920.

			£	s.	d.
Medical Superintendent and Fees	...	...	111	0	6
Wages—Nursing and Domestic Staff	...	...	464	15	1
Other Wages	...	...	306	0	9
Subsistence—Staff and Patients	...	...	696	8	9
Drugs and Medical Appliances	...	...	124	10	6
Fuel and Lighting	...	...	316	13	4
Furniture, Fittings and Repairs	...	...	6	16	2
Carriage Hire and Cartage	...	...	53	12	5
Household Utensils, Nurses' Uniform, etc.	...	...	140	6	7
Rates, Taxes and Insurance	...	...	88	6	11
Repairs to Buildings	...	...	240	0	6
Garden Requisites	...	...	22	17	7
Sundry and Petty Expenses	...	...	116	9	11
			<hr/> £2,687 19 0 <hr/>		

The Income from the Hospital was as follows:—

Maintenance Charges, Rent of Land, &c.	...	...	£31	19	0
			<hr/>		

ACTS AND BYE-LAWS IN FORCE.

Public Health Act, 1875, and Amendments, 1890, and 1907, and extension of Section 112 as to offensive Trades.

Housing and Town Planning, etc., Act. 1909, etc.

Bye-laws as to New Streets and Buildings with extension, dated May, 1911.

Bye-laws as to Common Lodging Houses.

Bye-laws as to Slaughterhouses.

Bye-laws as to Nuisances.

Bye-laws as to Nuisances in connection with the removal of offensive and obnoxious matter.

Bye-laws as to Good Rule and Government of the Borough.

Bye-laws as to Contagious Diseases of Animals Act, 1886.

Bye-laws as to Dairies, Cowsheds and Milkshops Regulations, 1885.

Bye-laws as to Rag Flock Regulations, 1912.

INQUESTS DURING 1920.

Month	Sex	Age in Years	Cause of Death
January ...	M.	57	Syncope, resulting from a Fatty Heart.
„ ...	F.	4 hrs.	Atelectasis.
„ ...	M.	76	Hypostatic Pneumonia. Shock from Fracture of left Humerus. caused by a fall.
February ...	F.	23 months	Exhaustion following extensive scalding, caused by falling into a bath of hot water.
„ ...	M.	4 days	Accidentally suffocated whilst in bed with his parents.
March ...	F.	88	Exhaustion following Fracture of neck of left Femur, caused by an accidental fall.
April * ...	F.	69	Syncope as the result of Pleurisy and Fatty Degeneration of Heart.
May ...	F.	41	Malignant Tumour at base of Brain.
„ ...	F.	91	Senile Decay, accelerated by shock from accidental fall.
August ...	F.	38	Injuries caused by being knocked down by a Motor-car, whilst riding a bicycle.
„ ...	M.	57	Injuries sustained by accidentally falling from his bedroom window on to the ground.
„ ...	F.	69	Cardiac Valvular Disease.
September	M.	72	Disease of the Aorta.
October ...	M.	75	Bronchitis, accelerated by impacted fracture of neck of right Femur, caused by an accidental fall.
November...	F.	78	Arterio Sclerosis. Contributory : Fracture of neck of right Femur, caused by a fall.
„	F.	53	Acute Congestion of Lung (left) and Pleurisy.
December ...	F.	41	Perforating Ulcer of Stomach. Peritonitis.
„ ...	M.	57	Fracture of Ribs caused when stepping off his bus, resulting in Pneumonia (left) and consequent Meningitis.
„ ...	F.	Newly Born	Want of attention at birth. Misadventure.

MATERNITY AND CHILD WELFARE.

NOTIFICATION OF BIRTHS ACT, 1907.

There were 583 Births registered in Worthing during the year 1920, of these 560 were notified to us, in accordance with this Act.

Of this number 135 were notified by the Local Medical Practitioners ; 414 were notified by the Midwives ; 11 were notified by the parents.

The work done by Nurse Tupman, expressed in tabular form is as follows :—

1.—Infants notified (including 11 lots of twins)	560
2.—Number visited	705
3.—Stillborn	10
4.—Infants who died after a few visits ...	7
5.—Infants who died unvisited	8
6.—Left Worthing	46
7.—Visited only a few times... ..	291
8.—Followed up through the year	414
9.—Average number of visits per working day now carried out	20
10.—Refused Admission	2
11.—Visits each month :	
January	211
February	220
March	226
April	250
May	270
June	199
July... ..	244
August	258
September... ..	290
October	295
November... ..	281
December	239
Total <u>2,983.</u>	

Information obtained by card system :—

	1912	1913	1914	1915	1916	1917	1918	1919	1920
Number Breast fed	318	358	380	409	400	404	346	342	371
„ Breast and bottle fed	20	176	172	164	135	98	59	113	223
„ Bottle fed (Cow's Milk)	37	42	34	34	26	22	25	36	48
„ Bottle fed (Condensed Milk)	17	17	16	14	11	14	23	5	15
„ Bottle fed (Other Foods)	12	8	9	6	10	12	34	21	48

The marked increase in number of "breast and bottle fed" is due to the growing use of citrated cows' milk especially recommended by the M.O.H., and so successfully carried out by our Mothers. The increase in "other Foods" is due to the increased use of Glaxo.

TUBERCULOSIS VISITS IN 1920.

January	44	July	74
February	58	August	53
March	36	September	62
April	36	October	42
May	27	November	47
June	36	December	17
Total 532.			

CHILDREN'S CARE SOCIETY.

During the year the Committee—

Visited 445 mothers and infants and in so doing paid over 1,267 visits.

Relief was also given to a large number of families, 75 cases in all.

Nine cases of tuberculous school children have obtained great benefit by receiving a constant supply of milk. One tuberculous child has been sent to a Home, the expenses being defrayed by the Society.

SCHOOL BOOT CLUB.

There were supplied during 1920, 1,099 pairs of boots and £732 14s. 3d. was paid in by the children.

CRECHE.

The attendances at the Day Nursery for the year have been 1,616 There was thus an average of 37 infants in the Crèche each week it was opened.

The Board of Education made a grant to this Society of £29 5s. 0d. for the year 1920.

MOTHERS' WELFARE CENTRE.

Is open once a week to all mothers, and children under 5 years of age.

Month.	No. of Welfares		No. of children under 1 year. over 1 year.				Advice given.	New cases.		
January	...	4	...	58	...	21	...	47	...	26
February	...	4	...	76	...	16	...	62	...	23
March	...	5	...	61	...	16	...	39	...	25
April	3	...	44	...	9	...	19	...	11
May	4	...	76	...	13	...	29	...	20
June	4	...	74	...	16	...	48	...	16
July	4	...	89	...	7	...	47	...	19
August	...	4	...	85	...	17	...	35	...	13
September	...	4	...	84	...	12	...	34	...	17
October	...	5	...	92	...	19	...	33	...	16
November	...	3	...	33	...	15	...	15	...	5
December	...	5	...	75	...	15	...	36	...	19

An Ante-Natal Clinic is held on the first and third Monday in the month, at which 15 cases were seen during 1920.

Also, in connection with the Welfare, Dental Clinics are held twice a week, for expectant and nursing mothers, and children under 5 years of age, on Wednesday and Friday.

RE-EXAMS: Children under 5 years of age are re-examined every 6 months.

Month	No. of Clinics		Attend- ances	New Cases	Mechanical Work														
					Extractions	Sealings	Dressings	Stoppings	Impres- sions	Try on	Fit in	Easing	Re-Exams						
January	...	5	...	14	...	4	...	19	...	2	...	3	...	1	...	1	...	...	...
February	...	4	...	11	...	2	...	13	...	...	...	1	...	...	...	1	...	...	...
March	...	5	...	14	...	5	...	50	...	1	...	3	...	1	...	...	...	...	...
April	...	7	...	30	...	5	...	60	...	...	...	2	...	3	...	...	1	...	...
May	...	8	...	31	...	6	...	58	...	2	...	2	...	1	...	3	...	3	...
June	...	4	...	14	...	1	...	21	...	1	...	5	...	...	...	2	...	3	...
July	...	9	...	37	...	7	...	59	...	2	...	6	...	4	...	3	...	2	...
August	...	9	...	44	...	6	...	18	...	1	...	9	...	8	...	6	...	4	...
September	...	8	...	41	...	8	...	49	...	...	...	12	...	7	...	...	2	...	...
October	...	8	...	27	...	5	...	41	...	1	...	13	...	12	...	2	...	1	...
November	...	8	...	27	...	5	...	39	...	1	...	8	...	8	...	...	1	...	...
December	...	5	...	19	...	2	...	18	...	1	...	7	...	4	...	...	...	...	...

Glaxo, Virol and Lactagol were sold at the Centre to 171 mothers, some of whom paid half-price. Glaxo, Virol and cow's milk were given to 148 mothers.

STILL BIRTHS, 1920.

Midwife.	Number.	Causes.
Mrs. Dolton ...	5 ...	Macerated (7 months foetus). (1 of Twins) Accidental Birth, cord stretched.
		Macerated (8 months) Syphilis. Patient attended V.D. Clinic.
		Macerated (7 months) Syphilis. Decomposed (8 months).
R. Swaby ...	1 ...	Twin pregnancy. Very small mother.
Mrs. Street ...	1 ...	Macerated. Syphilis.
Miss Churchill	1 ...	Midwife refused to give any information

As to the GENERAL ARRANGEMENTS made for attending
to the health of expectant and nursing mothers and
children under 5.

An Ante-Natal Clinic is held every fortnight and a Mothers' Welfare Centre once a week where babies and children under 5 are weighed, and food sold—such as Glaxo, Virol, and Lactagol, and milk given free or at half-price, and at the same time a consultation is given to mothers by the M.O.H. Twice a week a Mothers' Dental Clinic is held, where expectant and nursing mothers, and children under 5, are treated. Arrangements are made for the reception of mothers (married and unmarried) into a private maternity home in the town. Since June, 1919, for abnormal or severe confinements, arrangements are made to send them to the Women's Hospital at Brighton. Arrangements are also made for unmarried mothers and their babies to enter a Hostel at Hove. The Children's Care Society co-operates with us in visiting children from over 1 year up to 5 years of age and supplying milk in necessitous cases.

CASES OF OPHTHALMIA NEONATORUM, 1920.

Number.	Result.
5	Both eyes in all 5 cases. All completely recovered
Epidemic Diarrhoea was not prevalent and no deaths took place.	

Great interest is taken in Infant Welfare work and it is very gratifying to note the gradual reduction of Infantile Mortality during the last ten years. This year having been the lowest on record, viz., 39 per 1,000 births.

SANITARY ADMINISTRATION.

The staff of the Public Health Department is as follows :—

Medical Officer of Health.
Sanitary Inspector.
Assistant Sanitary Inspector.
Health Visitor.
Clerk.
Two handy men.

The Medical Officer of Health is also Medical Superintendent of the Isolation Hospital, Medical Officer to the Borough Education Committee, Superintendent of the Infant, Welfare Centre and Borough Meteorologist.

The Sanitary Inspector is also the Housing Inspector, Inspector under the Petroleum Acts and Inspector under the Poisons and Pharmacy Acts. He inquires into cases of infectious disease, superintends their removal to hospital and the disinfection of premises and clothing. He undertakes the testing of drains and sanitary fittings of private houses for private persons, the fees for which are paid to the Council. He enquires into all complaints and carries out the duties under the Housing and Town Planning Acts, assisted by Mr. King.

The Assistant Sanitary Inspector is also Meteorological Registrar, the Council's Shops' Inspector, and assists the Inspector in all matters connected with his office.

A School Nurse and a Health Visitor are employed by the Council. Miss E. Bailey, the School Nurse, devotes all her time to the duties in connection with the Medical Inspection of School Children, School Clinic, Eye and Dental Clinics, assists at X-ray treatment and at operations for Tonsils and Adenoids, also at the Maternity and Child Welfare Centre.

Mrs. K. Tupman, the Health Visitor, assists the County Tuberculosis Officer at the Worthing Hospital, attends at the Maternity and Child Welfare Centre, the Dental Clinics for Mothers and Children under 5 years, and carries on the work in connection with the same.

At the close of the year it was necessary, owing to the increasing work, to advise the Council to appoint a third Nurse to assist generally, and Miss Belchem, who assisted for some time during 1919, was permanently appointed in January, 1920.

The Clerk, Mr. C. A. Buxton, carries out the clerical duties of the Public Health Department and acts as assistant to the Meteorological Observer.

One handy man is responsible for the destruction of mosquitoes and gives general assistance in connection with the Department.

The second handy man assists in the removal of cases to hospital, the disinfection of premises and clothing, and the testing of house drains and fittings, also general labouring work in connection with the Department.

HOUSING, TOWN PLANNING, Etc., ACTS.

A census was taken in 1919 of the houses in the Borough where the rent did not exceed £24 per annum, in order to ascertain the amount of overcrowding on space, due to the shortage of houses, and where there were two or more families.

In cases of more than two persons per bedroom it was considered to be overcrowding,

From the Enumeration Returns it is found that there were 411 houses, the rent of which did not exceed £24 per year, with two or more families each. Of this total 20 houses have two bedrooms each. Ten houses have an average of more than four occupiers. Taking an average of two persons per bedroom,

10 houses required.

320 houses have three bedrooms each, and 99 houses have an average of more than six occupiers, therefore

99 houses required.

56 houses have four bedrooms each, and six have over eight occupiers, therefore

6 houses required.

8 houses have five bedrooms each, three with over ten occupiers, therefore

3 houses required.

I estimate the unsatisfied demand for houses to be 118

Thus :—

$$\begin{array}{r}
 10 \\
 99 \\
 6 \\
 3 \\
 \hline
 118 \\
 \hline
 \end{array}$$

Allowing 35 houses per year for the next three years, 105 would be required.

Of the 93 scheduled as unfit for human habitation 2 were certified under Section 17 of the Housing, Town Planning, Etc., Act during 1920, but owing to the scarcity of houses could not be vacated by the end of the year.

59 others should be closed and demolished.

The remaining 32 might, with improvements, be allowed to remain, although they fall below a reasonable standard for a seaside resort.

Total number required, therefore, is 284.

The Corporation Housing Scheme was commenced, under the Borough Surveyor, in May 1920, the contract being let for the erection of 56 houses of the "B" type and 6 houses of the "A" type, none of which was ready up to December 31st, 1920.

I have obtained from Mr. F. Martin, the Rate Collector, the number of inhabited and uninhabited houses in the middle of 1920 : —

			Occupied.		Unoccupied.
Selden Ward	...	...	1548	...	5
Central Ward	...	...	1330	...	1
Park Ward	...	...	810	...	—
Victoria Ward	...	...	821	...	—
Heene Ward	...	...	1345	...	5
Broadwater Ward	...	...	1252	...	10
West Tarring Ward	...	...	880	...	6
		Totals	<u>7986</u>		<u>27</u>

At the 1911 Census the population was 30,305.

At the 1901 Census the population was 20,015.

Borough of Worthing.

MEDICAL INSPECTION OF SCHOOL CHILDREN.

Official Accommodation	...	...	4,465
Total on Books	...	...	3,511
Average Attendance	...	...	3,140.5

The following Table, No. I, Board of Education, shows the number of children inspected:—

A.—“ CODE ” GROUPS.

Age	Entrants					Total	Inter- mediate	Seniors	Total	Grand Total
	3	4	5	6	7		8	12		
Boys ...	21	53	56	30	6	166	179	186	365	531
Girls ...	14	45	74	37	13	183	174	164	338	521
Totals ...	35	98	130	67	19	349	353	350	703	1052

B.—GROUPS OTHER THAN “ CODE.”

	Intermediate Group, other than 8 years old	Special Cases	Number of Children Re-examined
Boys	4	126
Girls	8	135
Totals	12	261

Number of individual children inspected—1,325.

TABLE II.

RETURN OF DEFECTS FOUND IN THE COURSE OF
MEDICAL INSPECTION.

Defects.	Code Groups		Specials	
	No. referred for treatment	No. requiring observation not referred for treatment	No. referred for treatment	No. requiring observation not referred for treatment
Malnutrition	1	...	...	...
Uncleanliness: Head ...	3	...	122	...
Body ...	2	...	9	...
Ringworm: Head ...	...	...	24	...
Body ...	...	...	10	...
Scabies	10	...	45	...
Impetigo	4	...	242	...
Other Disease	2	...	...	...
Defective Vision and Squint	88	...	47	...
External Eye Disease ...	4	...	30	...
Defective Hearing	4	...	...	...
Ear Disease	9	...	32	...
Teeth (See Dental Report)...	4	...	64	...
Enlarged Tonsils	79	58	86	...
Adenoids and Sore Throat..	3	...	32	...
Enlarged Tonsils and Adenoids ... ..	...	...	...	...
Defective Speech ... ..	...	1	...	...
Heart Disease: Organic ..	...	10	...	..
Functional	...	6	...	...
Anæmia ... ..	...	...	...	...
Pulmonary Tuberculosis:				
Definite ... ..	...	...	...	...
Suspected ... ..	...	1	...	...
Chronic Bronchitis ... ..	...	1	...	...
Other Disease ... ..	...	...	...	...
Mental Deficiency ... ..	...	2	...	...
Chorea ... ..	...	...	...	1
Other Disease: Gen. Health	...	...	13	...
Non-Pulmonary Tuberculosis:				
Glands	1	...	14	...
Bones and Joints ..	...	...	...	...
Other Forms	1	...	...	...
Rickets ... ..	...	1	...	...
Deformities ... ..	...	7	...	...
Other Defects or Diseases:	7	...	200	...
Rash ... ..	...	...	10	...
Totals	222	87	980	1

Number of individual children having defects which require treatment
or to be kept under observation ... 1089

TABLE III.
NUMERICAL RETURN OF ALL EXCEPTIONAL CHILDREN
IN THE AREA IN 1920.

				Boys	Girls	Total
Blind (including partially blind)	{	Attending Public Elementary Schools ...	...	1	...	1
		Attending Certified Schools for the Blind...	...	...	...	...
		Not at School ...	..	...	...	...
Deaf and Dumb (including partially deaf)	{	Attending Public Elementary Schools ...	...	2	5	7
		Attending Certified Schools for the Deaf ..	...	...	...	(partial-ly deaf.)
		Not at School ...	..	...	...	...
Mentally Deficient	{	Attending Public Elementary Schools ...	...	1	1	2
		Attending Certified Schools for Mentally Defective Children ...	...	2	...	2
		Notified to the Local (Control) Authority during the Year ...	...	1	1	2
		Not at School ...	...	4	5	9
	{	Imbeciles { At School... ..	...	...	...	...
		Not at School ... ..	...	...	...	...
	{	Idiots { Notified to Local (Control) Authority during the year... ..	...	1	...	1
Epileptics	{	Attending Public Elementary Schools ...	...	...	2	2
		Attending Certified Schools for Epileptics ..	...	...	...	...
		Not at School ... ..	...	1	1	2
Physically Defective	{	Pulmonary Tuberc'losis { Attending Public Elementary Schools ...	...	8	3	11
		Attending Certified Schools for Physically Defective Children ...	...	...	...	...
		Not at School ... ..	...	1	3	4
	{	Other forms of Tuberc'losis { Attending Public Elementary Schools ...	...	4	5	9
		Attending Certified Schools for Physically Defective Children ...	...	...	...	...
		Not at School ... ..	...	...	...	...
	{	Cripples other than Tubercular { Attending Public Elementary Schools ...	...	...	1	1
		Attending Certified Schools for Physically Defective Children ...	...	...	...	...
		Not at School ... ..	...	...	...	...
Dull or Backward* ...	{	Retarded 2 years ...	...	87	61	148
		Retarded 3 years ...	...	30	15	45

* Judged according to age and standard.

TABLE IV.

	No. of defects found for which treatment was considered necessary			No. of defects found for which no report is available	No. of defects treated	Results of Treatment			No. of defects not treated	Percent'ge of defects treated	
	From last year	New	Total			Remedied	Improved	Un-changed			
1 Clothing ... ..	...	1	1	...	1	1	...	...	...	100	1
2 Footgear ... ..	...	...	...	...	...	...	...	...	...	...	2
3 Cleanliness : Head	...	3	3	...	3	3	...	...	...	100	3
4 " Body	1	2	3	...	3	2	...	1	...	100	4
5 Nutrition	5	1	6	...	6	1	4	1	...	100	5
6 Nose and Throat...	64	79	143	...	70	69	1	73	73	49	6
7 External Eye Disease	2	4	6	...	6	1	4	1	...	100	7
8 Ear Disease	3	9	12	...	12	2	9	1	...	100	8
9 Teeth	See	Dental Report		...	...	...	...	...	...	...	9
10 Heart and Circulation	24	16	40	...	40	4	7	29	...	...	10
11 Lungs	2	2	4	...	4	1	1	2	...	...	11
12 Nervous System ...	...	2	2	...	2	...	...	2	...	...	12
13 Skin .. ...	...	...	...	...	...	...	...	...	...	...	13
14 Rickets	4	1	5	...	5	...	2	3	...	...	14
15 Deformities	9	7	16	...	...	...	2	14	...	...	15
16 Tuberculosis (Non.-Pul.)	...	3	3	...	3	...	...	3	...	...	16
17 Glands ... ..	...	1	1	...	1	...	2	1	...	...	17
18 Speech	2	...	2	...	2	...	1	2	...	...	18
19 Mental Condition	3	...	3	...	3	...	...	...	...	...	19
20 Vision and Squint	17	88	105	...	43	43	...	62	62	41	20
21 Hearing	1	4	5	...	5	2	...	3	...	100	21
Miscellaneous	10	23	33	...	33	23	...	10	...	100	
Totals	147	246	393	...	242	152	33	208	135		

Area : WORTHING EDUCATION AUTHORITY.

TABLE V.

INSPECTION, TREATMENT, ETC., OF CHILDREN
DURING 1920.

(1) The total number of children medically inspected (whether Code Group, special or ailing child)	2174
(2) The number of children in (1) suffering from defects (other than uncleanness or defective clothing or footgear) who require to be kept under observation (but not referred for treatment)	87
(3) The number of children in (1) who were referred for treatment (excluding uncleanness, defective clothing, etc.)	1235
(4) The number of children in (3) who received treatment for one or more defects (excluding uncleanness, defective clothing, etc.)	1084

AVERAGE HEIGHT AND WEIGHT.

INFANTS.											
MALES.						FEMALES.					
Age	No. of Children	Height.		Weight		No. of Children	Height		Weight		
		English	Metric	English	Metric		English	Metric	English	Metric	
		ft. ins.	Centi- metres	st. lbs.	Kilo- grams		ft. ins.	Centi- metres	st. lbs.	Kilo- grams	
3	21	3 1 $\frac{1}{4}$	94.61	2 7 $\frac{1}{2}$	16.10	14	3 1 $\frac{1}{4}$	94.61	2 6 $\frac{3}{4}$	15.76	
4	53	3 3 $\frac{3}{4}$	100.96	2 9 $\frac{1}{2}$	17.01	45	3 3 $\frac{3}{4}$	100.96	2 9 $\frac{3}{4}$	17.12	
5	56	3 6	106.67	2 13 $\frac{1}{4}$	18.71	74	3 6	106.67	2 12 $\frac{1}{4}$	18.25	
6	30	3 8 $\frac{3}{4}$	113.66	3 2 $\frac{1}{4}$	20.07	37	3 8 $\frac{1}{2}$	113.02	3 2	19.95	
7	6	3 9 $\frac{1}{4}$	114.93	3 3 $\frac{1}{2}$	20.63	14	3 10	116.83	3 4 $\frac{3}{4}$	21.20	
INTERMEDIATES.											
8	179	4 0 $\frac{1}{2}$	123.18	3 11 $\frac{1}{4}$	24.15	174	4 0	121.91	3 9 $\frac{1}{2}$	23.36	
SENIORS.											
12	186	4 7 $\frac{1}{4}$	140.33	5 3 $\frac{1}{2}$	33.33	164	4 8	142.23	5 3 $\frac{1}{4}$	33.22	

II. FOLLOWING UP.

In following up, the Nurse visited 1,099 homes, as follows:—

<i>Re</i> Eyes	...	171
„ Teeth	...	139
„ Heads	...	93
„ Tonsils	...	478
„ Ringworm	...	21
„ Various	...	197
		<hr/>
		1,099
		<hr/>

She also paid 520 visits to Schools, as follows:—

Inspection for Cleanliness	...	192
„ „ Eye Cases	...	13
Various	... ..	315
		<hr/>
		520
		<hr/>

(a) No. of children found unclean: Heads 122, Bodies 9. Total 131.

(b) Cleansing arrangements: Homes visited. Printed instructions given to parents. Inspected periodically at Clinic until clean.

(c) Record of legal proceedings: 10 parents. Result: 3 fined; 7 attendance orders made.

TABLE SHOWING DEFECTS FOUND ON
INSPECTION. 1920.

	Entrants Juniors.	Intermediate Age 8.	Seniors Age 12	Totals.
Clothing	1 Ver.	...	...	1
Nutrition ... ..	...	1	...	1
Cleanliness and Condit- ion of Skin ... ..	...	...	...	...
Head ... ..	...	2	1	3
Body ... ..	...	1	1	2
Teeth ... ..	...	...	4	4
Nose and Throat :				
Def. Septum. ...	...	...	3	3
Tonsils Sl. ...	26)	24)	8)	58)
Mk. ...	35) 61	30) 54	14) 22	79) 137
Adenoids ...	1	2	...	3
Glands ...	17	20	10	47
Cleft Palate ...	1	...	...	1
External Eye Disease :				
3 Bleph) ...	4 )	...	...	10
1 Ptosi) ...	6) 10	...	...	...
Squint... ..	...	...	...	...
Vision ... ..	...	59	23	82
Ear Disease	3 Otorr	5 Otorr	1 Otorr	9 Otorr
Hearing	1 Deaf	2	1 deaf	4
Speech... ..	...	1 Artic.	...	1
Mental ... ..	...	...	...	...
Heart and Anæmia ...	4 (2 Org. (2 Func.	5 (3 Org. (2 Func.	7 (5 Org. (2 Func.	16 (10 Org. (6 Func.
Lungs	1 Bron.	1	...	2
Nervous System ...	...	1 Epi.	1 Epi.	2 Epi.
Tuberculosis	2 (1 Gl. (1 Spi.	...	1 Pro. ex. D. L. Apex.	3
Rickets ... ..	...	1	...	1
Deformities and Spinal Disease	2 Inf. Par.) 2 Pig. Ch.) ⁴	1 Pig. Ch.) ² 1 Ft. Ft.) ²	1	7
Infectious Disease ...	1 Imp.) 6 Scab.) ⁷	1 Imp.) 1 Scab.) ²	2 Imp.) 3 Scab.) ⁷ 2 Other)	4 Imp.) 10 Scab.) ¹⁶ 2 Other)
Other Defects ... ..	...	2 Thy.	4 Thy.) ⁵ 1 Her.) ⁵	6 Thy.) ⁷ 1 Her.) ⁷
Parents present... ..	226	133	85	444
Total Examined ...	349	353	350	1052

Number of parents who responded to the invitation to
be present at the examination :—

65% of parents of the younger one.

31% „ „ „ „ older „

1920.

The following Table shows the work done at the Inspection Clinic:—

Complaints.	No. of Children.	No. of Attendances at Clinic.
Ringworm	34	221
Verminous Head	131	695
Impetigo	242	736
Rash	10	23
General Health	13	15
Ear Discharge	32	115
Eye Affection	77	443
Scabies	45	195
Sore Throat	32	60
Chorea	1	1
Teeth	64	80
Swollen Glands	14	22
Enlarged Tonsils	86	147
Other Defects	200	370
Total	981	3123

Examination of Ringworm Hairs ...	31
Negative 3	
Positive 28	Cases cured 13
Tonsils and Adenoids—Clinics ...	17
Number of children operated on	69
Ditto (private treatment)	1
Total ...	70

III.

1920.

MEDICAL TREATMENT.

The arrangements include treatment for :—

- (i) Minor Ailments.
- (ii) Eyes.
- (iii) Dental Defects.

(i) The following Table shows the work done in treating Minor Ailments :—

1st January to 31st December, 1920.

Disease.	Total Treated.	Total Attendances.	Cures.
Ringworm of Head	24	235	15
Ringworm of Body	10	47	10
External Eye Disease	11	599	6
Impetigo and Eczema	242	736	238
Otorrhœa	26	172	30
Scabies	45	195	45
Conjunctivitis	19	233	17
Other Defects	72	205	66
Totals... ..	449	2422	427

(ii) EYES :—

New cases examined—22.

(a) Glasses provided	19
(b) Glasses not recommended	3
(c) Requiring treatment only	—
	—
	22
	—

Re-examinations 21. Fresh Glasses 9

Parents paid £5 3s. 6d.

Total Glasses 28

Total Cases 43

NOTE.—Re Eyes. April 13th, 1920 to October 23rd, 1920, no Clinic, Ophthalmic Surgeon resigned. October 23rd, 1920 to December 11th, 1920, Temporary Clinic at Worthing Hospital. December 21st, 1920, Clinic resumed at School Clinic, Gloucester Lodge.

(iii) Dental. (See Dental Report.)

RINGWORM.—X-RAY OPERATIONS, 1920.
Number of cases—15. Fit—14. Nearly Fit—1.

Initials.	Sex.	Duration.	Distribution.	Treated.	Result— passed fit.
1. D.T.	F	Jan. 1920	Whole head	Jan. 28, 1920	April 12, 1920
2. J.D.	M		" "	" "	" 22 "
3. B.W.	M		One patch	Mar. 17 "	" 28 "
4. F.B.	M		" "	" "	" 26 "
5. E.C.	M		" "	" "	" 28 "
6. L.L.	M	Aug. 1919	Whole head	" 22 "	" 28 "
7. C.A.B.	M	9 months	" "	" 31 "	" "
8. S.M.	M	April 1920	" "	April 27 "	July 12 "
9. L.M.	F	Jan. 1920	" "	" 30 "	Sept. 9 "
10. W.B.	F	June 1920	" "	July 2 "	" 23 "
11. R.P.	M	Dec. 1919	" "	" 6 "	" "
12. B.Y.	M	July 1920	" "	Oct. 6 "	Jan. 25 "
13. M.B.	F	July 1920	" "	Nov. 15 "	" 20 "
14. O.S.	F	3 weeks	" "	" 22 "	" "
15. J.C.T.	M	Sept. 1920	" "	" 29 "	" "

(iii) DENTAL :—

THE SCHOOL CLINIC,
DENTAL DEPARTMENT,
GLOUCESTER LODGE, WORTHING.

January, 1921.

R. HEYWOOD WILSHAW, ESQ., M.D., M.R.C.P.

Medical Officer of Health.

Dear Sir,

I have particular pleasure in submitting herewith the Tenth Annual Report of the work done in the Dental Department during the year 1920.

The work, as you are aware, is growing very rapidly indeed and the attendance is wonderfully good.

The total number of children inspected was 1,735.

The number of children requiring treatment was 1,510.

The number of children treated was 833.

The average number treated each half-day was 14.

The average number of fillings each half-day was 15.

The attendance of the following-up children was 50%.

I should like to bring to your careful notice the figures above, they are particularly remarkable.

Of the total number of children inspected 90% needed treatment. Of these 60% were treated.

The conclusion to be drawn from these figures is that more time is required to cope efficiently with the work. It is practically impossible to deal effectively and efficiently with such a number in the limited time allowed, i.e. $1\frac{1}{3}$ days per week, and I am anxious to emphasize this point. The work at present mainly consists of conserving permanent teeth, but it should not rest there.

I am anxious to see the rapid progression extend and I am confident that ultimately the remaining 40% will enter the fold. To ensure this result, and to cope with the ever increasing number of "followers-up," i.e., those children over nine years of age who have received treatment previously, more time should be allowed at the Dental Clinic.

If we take the "followers-up" and compare present with past figures, we have 244 children in 1918, against 634 in 1920.

With regard to the "followers-up" the reasons there were not more treated were three :—

Absence from school on the day of Dental Inspection.

Change from one school to another.

A few had left the town.

I will not burden the report with further figures, but trust that some practical steps will be taken to ensure a continual progression of the work, of which all your staff are justly proud.

It has always been my custom to call attention to my co-workers and helpers. They have worked untiringly and have been as enthusiastic as myself, and our best thanks are due to them. We have all missed the sympathetic help of Miss Bailey, the School Nurse, during the last few months, and trust she will soon return restored in health. Mr. Holdstock, the Clinic Clerk, must be congratulated on obtaining the consent of parents to dental treatment to the extent of 60%.

I am, dear Sir,

Yours faithfully,

(Signed) W. ADDERLEY, L.D.S., ENG.,

School Dentist.

Borough of Worthing Education Authority.

DENTAL.

TABLE A.

Number of children on the Registers of the Schools— term ended 31st December, 1920	...	...	...	3511
Number of children under 9 years who have been examined	...	...	...	1023
Number of children over 9 years who have been examined	...	...	...	712
Number of those whose teeth need attention	...	...	1510	
Number of those examined whose teeth are all sound			225	
Number of forms sent to parents notifying necessity for treatment	...	...	...	781
Number of forms returned signed by parents desiring treatment	...	...	...	509
Number of children treated	...	...	...	833
Number of attendances made by such children			...	1165
Number of extractions	...	...	...	602
Number of fillings	...	...	...	1293
Number of dressings	...	...	...	208
Number of half-days occupied in treatment	...	...	82	
Number of half-days occupied in school inspections	...		12 $\frac{2}{3}$	
Average number of children treated each half-day	...		14	
Amounts received from parents towards cost of treatment	...	...	...	£14 19s. 9d.

TABLE B.

Results of the Examination of the Children's Teeth:—

Age.	No. of Children examined.	No. whose teeth need attention	Temporary Teeth			Permanent Teeth		
			Sound	Carious Savable	Carious Unsavable	Sound	Carious Savable	Carious Unsavable
3	4	4	46	8	26	...	...	...
4	2	2	22	3	11	...	...	...
5	19	17	256	50	65	9	1	...
6	317	259	4016	689	810	954	119	2
7	340	303	3340	509	985	2275	271	2
8	341	326	2160	405	978	3435	312	4
Total	1023	911	9840	1664	2875	6673	703	8
9	180	164	843	130	384	2443	128	...
10	149	131	475	82	221	2346	169	12
11	165	135	304	39	136	3165	161	21
12	124	99	146	16	79	2619	186	28
13	84	60	53	1	14	1940	136	24
14	10	10	3	...	1	240	22	...
Total	712	599	1824	268	835	12753	802	85
Grand Total	1735	1510	11664	1932	3710	19426	1505	93

TABLE C.

Number of children examined and treated:—

No. of Examinations			Total No. Treated	No. of Attendances	Fillings only	Fillings and Extractions	Extractions only
Boys	...	894	443	600	253	103	87
Girls	...	841	390	565	217	98	75
Total	...	1735	833	1165	470	201	162

TABLE D.

Number of Operations performed :—

Age	No. of Children Treated	Fillings	Dressings	Temporary Teeth Extracted	Permanent Teeth Extracted
4	2	...	...	2	...
5	15	1	1	22	...
6	78	97	13	102	2
7	122	232	20	105	6
8	156	247	30	109	2
9	115	153	21	80	1
10	95	152	19	31	11
11	99	159	38	42	12
12	83	145	45	24	16
13	55	93	16	7	13
14	9	14	5	1	2
	833	1293	208	537	65

FOLLOWERS-UP.

Age	No. of Children Examined	No. of Children Treated	Fillings	Dressings	Temporary Teeth Extracted	Permanent Teeth Extracted
9	157	78	134	17	49	1
10	134	80	146	17	18	4
11	154	87	150	30	39	8
12	107	68	136	37	16	4
13	72	42	80	9	4	5
14	10	9	14	5	1	2
	634	364	660	115	127	24

Followers-up	Temporary Teeth			Permanent Teeth		
	Sound	Savable	Unsavable	Sound	Savable	Unsavable
634	1627	226	706	11505	646	33

DENTAL TREATMENT, 1911 TO 1920.

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
No. of Children examined ...	701	1295	1201	1082	737	1213	1398	1052	1314	1735
" " requiring treatment...	585	1149	940	1004	632	1007	1209	943	1160	1510
" treated ...	129	266	347	380	308	420	369	433	645	833
" attendances ...	213	474	540	845	893	644	603	677	942	1165
" extractions ...	220	765	1052	979	437	427	419	500	563	602
" fillings ...	53	85	138	525	683	532	620	669	994	1293
" dressings ...	—	—	—	—	—	—	50	74	138	208
Half-days occupied—treatment	19	31	49	59	58	61	55 $\frac{1}{3}$	51	68 $\frac{1}{3}$	82
" " inspections	7	17	21	12	7	9	12 $\frac{2}{3}$	7 $\frac{1}{3}$	10 $\frac{2}{3}$	12 $\frac{2}{3}$
Average No. treated each half-day ...	11	15	11	12	11	10.5	11	13	13 $\frac{3}{4}$	14
No. of hours—treatment ...	57	93	147	177	174	183	166	153	205	246
" " inspections ...	21	51	63	36	21	27	38	22	32	38

From 1914 more attention paid to Conservation work—Permanent Teeth.

EAST PRESTON RURAL DISTRICT COUNCIL.

Chairman :
JOHN T. STRONG, Esq., J.P.

Vice-Chairman ;
A. W. F. SOMERSET, Esq., J.P.

Mr. S. S. PYLE.	Mr. J. TURNER.
The Hon. LADY JOHNSTON.	Mr. E. G. P. WYATT, M.A.
Admiral WARREN, M.V.O.	Mrs. GORDON.
Mr. J. LANGMEAD.	MR. F. G. PRING.
Mr. H. OVERINGTON.	Mr. G. C. ALLAN.
Mr. W. E. MASON.	Mr. W. HOLLIS.
Mr. N. HAGUE.	Mr. L. N. GRABURN.
Mr. W. B. STACY.	Mr. P. E. SCHWEDER.

Clerk : Mr A. SHELLEY.

Medical Officer of Health :
R. HEYWOOD WILSHAW, M.D. (Lond.), M.R.C.P., D.P.H.

Surveyor and Inspector of Nuisances :
Mr. R. E. BOOKER.
(Succeeded Mr. C. W. LENEY, September 30th, 1920.)

VITAL STATISTICS.

Registrar General's estimate of population, 1920	...	6402
Births	... ..	142
Males	... ..	81
Females	... ..	61
Birth Rate, per 1,000 population	... ..	22·2
Number of illegitimate children	... ..	8
Males	... ..	6
Females	... ..	2
Infantile Mortality, per 1,000 births	... ..	35
Number of deaths under 1 year	... ..	5
Deaths (after correction for 8 inward Transfers and 43 Outward)	... ..	57
Death Rate, per 1,000 population	... ..	8·9
Zymotic Death Rate	... ..	0·2

VITAL STATISTICS.

TABLE I.

East Preston Rural District.

Vital Statistics of Whole District during 1920 and previous Years.

Year.	Population estimated to Middle of each Year.	Births.			Total Deaths Registered in the District		Transferable Deaths		Net Deaths belonging to the District			
		Un-corrected Number.	Net.		Number	Rate	of Non-residents registered in the District	of Residents not registered in the District	Under 1 Year of Age		At all Ages	
			Number.	Rate.					Number	Rate per 1,000 Net Births	Number	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13
1914	7174	151	144	20.1	125	17.4	51	6	16	111	80	11.1
1915	6700	117	113	16.8	114	17.0	52	9	5	44	71	10.6
1916	(B.R. 6335) (D.R. 6893)	103	100	14.5	125	18.3	56	11	13	130	80	12.6
1917	(B.R. 6052) (D.R. 6746)	65	77	11.4	117	17.3	52	7	1	13	72	11.9
1918	(B.R. 6788) (D.R. 6058)	76	85	12.5	98	16.1	38	14	3	35	74	12.2
1919	(B.R. 6414) (D.R. 6157)	84	93	14.5	83	13.5	25	14	3	32	72	11.7
1920	6402	135	142	22.2	92	14.4	43	8	5	35	57	8.9

Area of District in acres (exclusive of area covered by water) } **28,127** } Total Population at all ages ...
 of area covered by water) } } Total Families or Separate Occupiers ...
 ... } **6,853** } At Census 1911.
 ... } **1,445** }

TABLE II.
East Preston Rural District.
Cases of Infectious Disease notified during the Year 1920.

NOTIFIABLE DISEASE.	Number of Cases Notified.							Total Cases Notified in each Locality.			
	At all Ages	At Ages—Years.						Worthing Sub-District.	Arundel Sub-District.	Littlehampton Sub-District.	Total Cases Removed to Hospital.
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65					65 and upward
Encephalitis Lethargica	1	...	...	...	...	...	...	...	...	1	...
Malaria	3	...	...	3	...	...	1	...	...	1	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)	35	2	27	3	1	2	...	...	13	22	1
Erysipelas	1	...	...	...	1	...	...	...	1	...	...
Scarlet fever	21	...	19	2	...	...	...	...	1	20	...
Typhus fever	...	...	...	...	...	...	...	...	...	...	...
Enteric fever	1	...	...	1	...	...	...	...	...	...	...
Relapsing fever	...	...	...	...	...	...	...	...	...	1	...
Continued fever	...	...	...	...	...	...	...	...	...	...	...
Puerperal fever	2	...	...	...	2	...	...	1	...	...	...
Cerebro-spinal Meningitis	...	...	...	...	...	...	...	...	1	...	...
Poliomyelitis	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum	...	...	...	...	...	...	...	...	...	...	...
Pulmonary Tuberculosis	11	...	...	2	8	1	...	...	...	...	...
Other forms of	2	1	...	...	1	...	...	6	4	1	...
Pneumonia	3	...	...	1	1	...	...	1	...	1	...
Totals	80	1	3	46	12	14	4	11	20	49	1

Isolation Hospital—"Swandean" Durrington

Isolation Hospital—"Swandean," Durrington, in the East Preston Rural District. Total available beds—32. Number of Diseases that can be concurrently treated—3.

TABLE III.

East Preston Rural District.

Causes of and Ages at Death during the Year 1920.

Causes of Death.		Net Deaths at the subjoined ages of "Residents whether occurring within or without the District.									Total Deaths whether of "Residents" or "Non-Residents" in Institutions in the District.
		All Ages.	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards	
1		2	3	4	5	6	7	8	9	10	11
All Causes	{ Certified .. Uncertified ...	57 ...	5 ...	... ...	... ...	1 ...	4 ...	3 ..	9 ...	35 ..	34 ...
Enteric Fever	...	...	...	...	...	...	...	...	...	...	...
Small-Pox	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup	...	1	...	...	...	...	1	...	...	...	1
Influenza	...	2	...	...	...	...	...	...	...	2	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis)	...	2	...	...	...	...	1	1	...	...	5
Tuberculous Meningitis	...	1	1	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...
Cancer, Malignant Disease	...	6	...	...	...	...	...	1	1	4	5
Rheumatic Fever	...	...	...	...	...	...	...	...	...	...	...
Meningitis	...	...	...	...	...	...	...	...	...	...	...
Organic Heart Disease	...	7	...	...	...	...	...	1	1	5	4
Bronchitis	...	2	...	...	...	...	...	...	...	2	2
Pneumonia (all forms)	...	...	...	...	...	...	...	...	...	...	1
Other diseases of Respiratory Organs	...	2	...	...	...	...	...	...	1	1	...
Diarrhœa and Enteritis	...	...	...	...	...	...	...	...	...	...	...
Appendicitis and Typhlitis	...	1	...	...	...	...	...	...	...	1	...
Cirrhosis of Liver	...	...	...	...	...	...	...	...	...	...	...
Alcoholism	...	...	...	...	...	...	...	...	...	...	...
Nephritis and Bright's Disease	...	1	...	...	...	...	...	...	...	1	1
Puerperal Fever	...	...	...	...	...	...	...	...	...	...	...
Other accidents and diseases of Pregnancy and Parturition	...	...	...	...	...	...	...	...	...	...	1
Congenital Debility and Malformation, including Premature Birth	...	3	3	...	...	...	...	...	...	...	...
Violent Deaths, (excluding Suicide)	...	3	...	...	...	...	1	...	1	1	2
Suicide	...	...	...	...	...	...	...	...	...	...	...
Other defined diseases	...	26	1	...	...	1	1	...	5	18	12
Diseases ill-defined or unknown	...	...	...	...	...	...	...	...	...	...	...
Totals	...	57	5	...	...	1	4	3	9	35	34
Sub-Entries	{ Cerebro-Spinal Meningitis .. Poliomyelitis .. Encephalitis .. Lethargica ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... 1	............	............

TABLE IV.
East Preston Rural District.

INFANT MORTALITY, 1920.

Net Deaths from stated causes at various Ages under 1 Year of Age.

Cause of Death.			Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 months	3 months and under 6 months	6 months and under 9 months	9 months and under 12 months	Total Deaths under 1 year
All Causes. }	Certified ...	...	2	...	...	1	3	1	...	...	1	5
	Uncertified ..	...	...	...	...	...	...	...	...	...	...	...
Small Pox ...			...	...	...	...	...	...	...	...	...	...
Chicken Pox ...			...	...	...	...	...	...	...	...	...	...
Measles ...			...	...	...	...	...	...	...	...	...	...
Scarlet Fever ...			...	...	...	...	...	...	...	...	...	...
Whooping Cough ...			...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup ...			...	...	...	...	...	...	...	...	...	...
Erysipelas ...			...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis...			...	...	...	...	...	...	...	...	1	1
Abdominal Tuberculosis			...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases ...			...	...	...	...	...	...	...	...	...	...
Meningitis (not Tuberculous)...			...	...	...	...	...	...	...	...	...	...
Convulsions ...			...	...	...	...	...	...	...	...	...	...
Laryngitis ...			...	...	...	...	...	...	...	...	...	...
Bronchitis ...			...	...	...	...	...	...	...	...	...	...
Pneumonia (all forms) ..			...	...	...	...	...	...	...	...	...	...
Diarrhœa ...			...	...	...	...	...	...	...	...	...	...
Enteritis ...			...	...	...	...	...	...	...	...	...	...
Gastritis ...			...	...	...	...	...	...	...	...	...	...
Syphilis ...			...	...	...	...	...	...	...	...	...	...
Rickets ...			...	...	...	...	...	...	...	...	...	...
Suffocation, overlying ..			...	...	...	...	...	...	...	...	...	...
Injury at Birth ...			1	...	...	...	1	...	...	...	...	1
Atelectasis ...			1	...	...	...	1	...	...	...	...	1
Congenital Malformations			...	...	...	...	...	...	...	...	...	...
Premature Birth ...			...	...	...	...	...	...	...	...	...	...
Atrophy, Debility and Marasmus ...			...	...	...	1	1	...	...	...	...	1
Other Causes ...			...	...	...	...	...	1	...	...	...	1
Totals ...			2	...	...	1	3	1	...	...	1	5
Net Births in the year			{ legitimate 134 illegitimate 8		Net Deaths in the year		{ legitimate infants 3 illegitimate infants 2					

BIRTHS.

The number of births registered and belonging to the district during 1920 was 142, (81 males and 61 females)

This is equivalent to a birth rate of 22·2 per 1,000.

Of the births eight were illegitimate, forming 5·6 per cent. of the total births.

DEATHS.

The number of deaths registered during 1920 from all causes at all ages of persons belonging to the East Preston Rural District was 57, giving a death rate of 8·9 per 1,000.

The total number of deaths registered in the Sanitary district of East Preston was 92. Of these 34 were in Public Institutions receiving sick persons from beyond the district, viz., 31 at North View, East Preston; one at the Worthing Isolation Hospital, Swandean; and two at Millfield Convalescent Home, Rustington.

INFANTILE MORTALITY.

The deaths of infants under one year of age were five, which is equivalent to a mortality of 35 per 1,000 births; of the 5 infant deaths registered, two were illegitimate, forming 40 per cent. of the total infant deaths.

Infantile Mortality for the last 10 years :—

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
Total Infant Deaths	16	9	17	16	5	13	1	3	3	5
Rate per 1,000 births	111	60	145	111	44	130	13	35	32	35
Total births	...	142	148	144	113	100	77	85	93	142

ZYMOTIC MORTALITY.

There was a death from one of the seven principal Zymotic diseases :—

Small Pox	...	...	...	...	—
Measles	...	...	...	...	—
Scarlet Fever	...	...	...	...	—
Whooping Cough	...	...	...	...	—
Enteric Fever	...	...	...	...	—
Diphtheria	...	...	...	...	1
Diarrhœa	...	...	...	...	—
					<hr/> 1 <hr/>

The Zymotic death rate is thus 0·2.

NOTIFIABLE DISEASES.

The number of notifications during 1920 was 80.

Diphtheria	...	...	..	35
Scarlet Fever	...	...	...	21
Erysipelas	...	...	...	1
Enteric Fever	...	...	...	1
Puerperal Fever	...	...	...	2
Tuberculosis	...	...	...	13
Pneumonia	...	...	...	3
Encephalitis Lethargica	...	...	...	1
Malaria	...	...	...	3

DIPHTHERIA.

There were 35 cases notified during the year, viz., 13 in the Arundel Sub-District, and 22 in the Littlehampton Sub-District. Most of the latter occurred at the Metropolitan Asylums Board Institution, Millfield, Rustington,

27 of the cases attacked were between 5 and 15 years of age.

SCARLET FEVER.

21 cases were notified, 1 in the Arundel Sub-District, and 20 in the Littlehampton Sub-District. The majority of these cases occurred at the Metropolitan Asylums Board Institution, Millfield, Rustington.

ENTERIC FEVER.

One case was notified during the year.

ENCEPHALITIS LETHARGICA.

One case occurred at Climping, which was of a rather severe type and the patient died after seven days' illness.

PUERPERAL FEVER.

Two cases were notified during the year.

The Administration of the Midwives Act is carried out by the West Sussex County Council.

Since the adoption of the Infectious Diseases (Notification) Act, 1889, which came into operation on March 1st, 1891, a

record of the cases notified each year has been kept. This is shown in the following statement :—

No. of cases.	No. of cases.	No. of cases.	No. of cases.
1891..... 6	1899..... 69	1906..... 13	1913..... 18
1892..... 54	1900..... 72	1907..... 36	1914..... 16
1893.....156	1901..... 37	1908..... 29	1915..... 20
1894..... 40	1902..... 38	1909..... 33	1916..... 81
1895..... 61	1903..... 30	1910..... 31	1917..... 73
1896..... 66	1904..... 12	1911..... 54	1918..... 46
1897..... 37	1905..... 23	1912..... 12	1919..... 39
1898..... 80			1920..... 80

The prevalence in each quarter of 1920, and the totals for 1915-1920, of each notifiable disease is shown in the following table :—

Disease.	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	1920	1919	1918	1917	1916	1915
Encephalitis Lethargica ...	...	1	...	...	1	...	...	...	...	...
Smallpox ...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ...	1	1	16	3	21	4	11	3	55	6
Diphtheria ...	8	...	16	11	35	7	2	4	2	12
Enteric Fever ...	1	...	...	...	1	...	4	1	...	1
Puerperal Fever ...	...	1	...	1	2	...	...	...	...	...
Erysipelas ...	...	...	1	...	1	2	...	2	2	1
Measles & German Measles ...	...	...	...	...	...	23	25	56	16	...
Pneumonia ...	1	2	...	...	3	3	13	...	...	...
Malaria ...	...	2	1	...	3	...	...	...	...	...
Totals ...	11	7	34	15	67	39	55	66	75	20

TUBERCULOSIS.

Tuberculosis in all forms is now compulsorily notifiable under the 1912 Regulations.

There were 13 persons notified under Form A of these Regulations suffering from Tuberculosis, viz., seven in the Worthing Sub-District, four in the Arundel Sub-District, and two in the Littlehampton Sub-District.

There was one case notified under Form C, also one under Form D.

WATER SUPPLY AND DRAINAGE.

The Parishes of Warning Camp, Cross Bush, Burpham and a part of Poling are supplied with water from the mains of the Borough of Arundel.

Durrington is served by the Worthing Corporation water mains.

The remaining parishes derive their supply chiefly from shallow wells, but in many cases where new property has been erected bored wells have been constructed.

There is no main drainage system in the district. The mansions and larger class of houses are provided with water closets and drainage systems in connection with cesspools. A number of cottages have privies, but in many cases earth and pail closets are provided.

INFECTIOUS DISEASES HOSPITAL.

In the case of the Worthing Registration Sub-District, which includes the parishes of Clapham, Goring, Ferring and Durrington, and in which Swandean (the Worthing Corporation Hospital) is situated, arrangements have been made with that Council to admit to their hospital cases of Infectious disease from this sub-district.

In the remaining 14 parishes of East Preston outbreaks of infectious disease take their natural course.

ACTS AND BYELAWS IN FORCE WITHIN THE DISTRICT.

Infectious Diseases Notification Act, 1889.

Infectious Disease Prevention, 1890.

Public Health Acts Amendment Act, 1890.

Public Health (Tuberculosis) Regulations, 1912.

BYE-LAWS.

1.—With respect to new streets and buildings (Urban Model).

2.—Dairies, Cowsheds and Milkshops Regulations.

DAIRIES, COWSHEDS & MILKSHOPS ORDER, 1885 & THE CONTAGIOUS DISEASES ANIMALS ACT, 1878.

The Contagious Diseases Animals Act is carried out by the County Police.

REPORT OF INSPECTOR OF NUISANCES.

Year ending 31st December, 1920.

Complaints received	...	...	...	...	62
Preliminary inspections	...	...	...	...	71
Written notices served	...	...	...	...	15
Verbal notices given	...	...	...	...	34
Statutory notices given	...	...	...	...	1
Samples of water taken	...	...	...	...	2
Houses overcrowded	...	...	...	...	2
Rooms disinfected	...	...	...	...	21
Rooms cleansed	...	...	...	...	15
Premises redrained	...	...	...	...	6
Cesspools cleansed	...	...	...	...	2
Drains cut off or repaired	...	...	...	...	2
Privies cleansed	...	...	...	...	17
New earth closets provided	...	...	...	...	12
Defective sinks replaced	...	...	...	...	—
Improved light and ventilation to rooms	...	...	...	...	18
Floors repaired	...	...	...	...	6
Roofs repaired	...	...	...	...	4
Accumulations removed	...	...	...	...	3
Miscellaneous defects remedied	...	...	...	...	4
Condemned houses improved and re-occupied	...	...	...	...	6

SCAVENGING AND CLEANSING.

Rustington is the only parish which is systematically scavenged.

The Tip used near Broadmark Lane was closed down and a Tip near the Brickfields is now in use.

No complaints as to this were received.

FACTORY AND WORKSHOPS ACTS.

The following workshops are situated in the district :—

Bakehouses	...	...	...	...	...	5
Blacksmiths	...	...	...	...	...	11
Bootmaker and repairers	...	...	...	...	...	3
Builders	...	...	...	...	...	6
Gut Cleaner	...	...	...	...	...	1
Wheelwright	...	...	...	...	...	5
Builders' yards and shops	...	...	...	...	...	2

Also the following factory :—

Miller	1
--------	-----	-----	-----	-----	-----	---

DAIRIES, COWSHEDS AND MILKSHOPS ORDERS.

There are three cowkeepers in the district. Two new cowkeepers were registered during 1920 (one at Goring and one at Offham, near Arundel) and the Regulations were satisfactorily complied with.

There is only one slaughter house in the district, and it is frequently inspected and verbal notices given as to cleanliness.

NEW HOUSES ERECTED IN 1920.

Durrington ...	12	(5 of these were timber structures.)
East Preston...	5	
Goring ...	4	(1 of these a timber structure.)
Salvington ...	3	(timber structures.)
Rustington ...	14	(3 of these were timber structures.)
Kingston ...	2	
Angmering ...	1	

HOUSING, TOWN PLANNING, ETC. ACT, 1909.

To complete the forms and information required by the Ministry of Health a general inspection as to the state of housing in the District was made and the number of houses regarded as unfit for habitation or defective was given. In this connection the Ministry of Health's Inspectors made several inspections in the District.

COUNCIL COTTAGES, ANGMERING.

Four cottages erected by the Council in 1914 have been occupied without a break since that date.